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ADMINISTRATION REPORT

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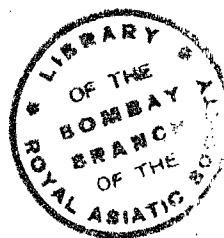
MUNICIPAL COMMISSIONER

FOR THE

CITY OF BOMBAY

FOR THE YEAR 1916-17.

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Review by the Standing Committee of the Administration Report of the Municipal Commissioner for the City of Bombay for the year 1916-17.

Corporation and Standing Committee.

The Hon'ble Mr. Chunilal Vijbhukandas Mehta, M.A., LL.B., was President of the Corporation, and the Hon'ble Mr. Salebhoy Karimji Barodawalla, Chairman of the Standing Committee, for the year.

2. Fifty-seven Meetings were held by the Corporation, including 2 Special Meetings, and 53 by the Standing Committee, including 1 Special Meeting. There were besides 96 Meetings of Committees of the Corporation and 25 Meetings of Sub-Committees of the Standing Committee.

3. During the year the Corporation presented an Address of Welcome to the newly appointed Viceroy and Governor-General of India, the Right Hon'ble Baron Chelmsford, and a Farewell Address to the Right Hon'ble Lord Hardinge of Penshurst on his retirement from the office of Viceroy of India.

Commissioner.

4. On the appointment of Mr. P. R. Cadell, C.I.E., I.C.S., who had held the office of Municipal Commissioner for the City of Bombay for about six years, to be Chief Secretary to the Government of Bombay, Mr. S. M. Edwardes, C.V.O., C.S.I., I.C.S., was appointed Municipal Commissioner. Owing to ill health Mr. Edwardes had to take leave for one year from the 16th October 1916. Mr. P. W. Monie, I.C.S., was appointed to act for him upto the 15th January 1917 and he was appointed Municipal Commissioner from the 16th January 1917.

Financial.

5. The net result of the year's transactions was a deficit of Rs. 1,65,553 against a surplus of Rs. 10,27,200 during the preceding year. The year opened with a working Cash Balance of Rs. 67,53,339, including Rs. 3,54,171 being the value of stores in hand, and closed with a balance of Rs. 65,93,786. Exclusive of Rs. 8,69,495, reserved for lapsed grants required to be renewed in 1917-18, Rs. 10,98,113, ear-marked for payment to the City Improvement Trust on 1st May 1917, Rs. 1,00,000, the minimum balance required under the Municipal Act, and Rs. 5,35,267, the value of stores in hand, the real unhypothecated Cash Balance at the close of the year stood at Rs. 39,90,911 against Rs. 42,05,118 at the close of the preceding year. Part of this balance is, however, held in Government Paper, the write-off in respect of which, owing to the present depreciated value of the Paper, will amount to about Rs. 7,00,000. Moreover, advances to the extent of Rs. 8,84,675 have been made from the Surplus Cash Balance for the purchase of lands and for loan works, pending adjustment against cash recoveries or the raising of a loan. The Chief Accountant, therefore, rightly observes that the real surplus may be put at not more than Rs. 24,00,000, of which 15 lakhs will be in $3\frac{1}{2}$ per cent. Government Paper reduced to its market value. If this is treated as a reserve, there remains a liquid balance of Rs. 9 lakhs only in cash. Considering the undischarged liabilities to which the Corporation have already been committed, viz., the improvement of the Mahim Bazar Road, the Church Gate Improvement Scheme and the acquisition of land for street improvement, the outstandings in respect of which alone amount to Rs. 5 lakhs, the available Surplus Cash Balance is practically entirely hypothecated. It has been the policy of the Corporation during the past four years to budget deliberately for deficits, having regard to the large amount of the surplus. In view, however, of the present state of the Cash Balance and the rapidly growing expenditure, it is doubtful whether it will be possible to allow the normal expenditure to trench

upon the balances any longer. This question and the more difficult one of financing capital works will receive the most careful consideration of the Standing Committee in framing the Budget estimates for the ensuing year.

6. Barring the temporary difficulties arising out of the war, the financial position of the Municipality is quite satisfactory. The best criterion of the financial stability of the Municipality is the growth of revenue from the property taxes, and it is satisfactory to record that these stable sources of income have been giving yearly proofs of their inherent vitality. The Assets exceed the Liabilities by Rs. 3,52,12,037, aggregating Rs. 11,56,45,985 against Liabilities amounting to Rs. 8,04,33,948. It is, moreover, satisfactory to note from the statement appended to paragraph 13 of the Chief Accountant's report that the wealth liable to taxation has grown faster than the indebtedness of the Corporation, the ratio of the rateable value of properties in the City as it stood on the 31st March 1917 to the aggregate amount of debt having been 1 : 1.260 against 1 : 1.642 in the year 1902-03. Judged by the limit of double the rateable value allowed under Section 109 (b) of the Municipal Act, the reserve of borrowing powers left to the Corporation is still over 4 crores and 35 lacs. On the latest budget data of income and expenditure, however, the balance of taxation against which loans can be raised for purposes other than Fire Brigade and Water Works amounts to Rs. 11,34,000, against which loans can be raised to the extent of Rs. 1,60,00,000 only. For the Water Works the Corporation could, if necessary, raise a large sum limited only by the water rate the Corporation would determine to levy, and for Fire Brigade purposes a loan of Rs. 29,61,000 could be raised.

Income.

7. With taxation at the same rates as in the previous year, the income, for the year amounted to Rs. 1,40,48,739, exceeding the income for the preceding year by Rs. 2,17,669. The Water Tax brought in an increase of Rs. 1,48,813 over the previous year, the revenue from this source having been underestimated. The realization from Halalkhore Tax showed an increase of Rs. 57,050 over the receipts for the past year due to enhancement in the rateable value and erection of new buildings. There was also an increase of Rs. 42,642 in the revenue from Wheel Tax and Tolls, indicating general trade activity in the City. Owing principally to curtailed expenditure on Loan Works, there was an increase of Rs. 74,953 in the receipts from Interest and Profit on the investment of Surplus and Loan Balances. These increases were partly counter-balanced by decreases of Rs. 15,409 under General Tax due to large arrear payments made by Government and the Port Trust in the preceding year, of Rs. 1,48,762 under Town Duties due to heavier refunds on export of dutiable goods from the City following on the extraordinary increase of Rs. 10,86,767 in 1915-16, and of Rs. 54,341 under Miscellaneous Receipts. Taking all the factors of expansion into consideration and eliminating all variable and unreliable sources of revenue, the Chief Accountant estimates the permanent expansion in the income of the Municipality at Rs. 5,00,000.

Incidence of Taxation.

8. The following table shows the incidence of taxation per head of population for the last quinquennium :—

Year.	Rate of General Tax.	Incidence per head of population by census of 1911.
		Rs. a. p.
1912-13	10 $\frac{5}{8}$ %	11 8 5
1913-14	10 $\frac{6}{8}$ %	11 10 5
1914-15	9 $\frac{7}{8}$ %	10 14 8
1915-16	9 $\frac{7}{8}$ %	12 9 8
1916-17	9 $\frac{5}{8}$ %	12 11 11

Expenditure.

9. The total expenditure for the year reached the unprecedented figure of Rs. 1,42,14,292, indicating an advance of Rs. 14,10,422 on the outlay of Rs. 1,28,03,870 for the previous year. If from this is eliminated the extraordinary and non-recurring expenditure of Rs. 2,98,135 incurred on the creation of a "Lands and Buildings Fund" and payment of Rs. 1,20,312 for the conversion of 3 and $3\frac{1}{2}$ per cent. Government Paper into 4 per cent. Government Paper, the increase in normal expenditure stands at Rs. 9,91,975. The principal factors contributing to this enhancement were as under :—

	Rs.
Assessment and Collection Department	41,759
Public Works	2,02,181
Public Health Department	1,47,491
Primary Education	48,000
Contribution to the C. I. Trust	83,868
Debt	4,76,283

Making allowances for all casual and non-recurring items, the Chief Accountant estimates the permanent increase in expenditure at Rs. 8,60,000 as under, against Rs. 4½ lakhs for the past year :—

	Rs.
General Superintendence	20,000
Assessment and Collection Department	35,000
Public Works Department (including Water Works Department)	1,95,000
Public Health Department	83,000
Education	49,000
Pensions	15,000
Contribution to the C. I. Trust	83,000
Municipal Debt	4,20,000
	Rs. ... 9,00,000

Less—

Reduction in the provision for Local Allowance on account of revision of the schedules	40,000
Total Rs. ...	8,60,000

This is the fourth successive year during which the normal expenditure has advanced at a rate higher than that of the income. Several proposals involving a further permanent increase in the recurring items of expenditure are now under consideration. The problem of bringing about a closer approximation of receipts and disbursements is therefore becoming increasingly difficult, but with the help of the Commissioner, who is endeavouring to effect economies wherever possible, the Standing Committee hope to deal satisfactorily with the situation so as to cope with all the pressing wants of the City without any undue increase in taxation.

10. LAPSED GRANTS, &c.—Out of the total sanctioned grants for expenditure aggregating Rs. 1,52,86,047, a balance of Rs. 10,71,755 remained unexpended at the close of the year. Of this, Rs. 8,69,495 required renewal for expenditure in 1917-18, leaving as savings a sum of Rs. 2,02,260. The amount which required renewal shows a decrease of Rs. 1,29,266, as compared with the amount for the previous year, the percentage of renewed grants to grants allotted being 5.63 against 7.07 in 1915-16. The amount of total unappropriated net savings also shows a decrease of Rs. 1,14,374, the percentage working out at 1.32 against 2.24 in 1915-16 and 1.04 in 1914-15.

11. LOAN WORKS EXPENDITURE.—The total expenditure on Loan Works during the year aggregated Rs. 12,90,759 against Rs. 28,56,540 in the preceding year, showing a decrease of Rs. 15,65,781 due to the curtailment of capital

expenditure in view of the difficulties arising out of the war. The original estimates for the year aggregated Rs. 25,70,050 and the actual expenditure was 49·78 per cent. below the estimates, whereas in the preceding year it was 39·5 per cent. below the estimates. If, however, the actual expenditure is compared with the revised estimates aggregating Rs. 21,87,949, the only item which shows large variations is Roads and Overbridges on which the expenditure booked amounted to Rs. 1,84,611 only, against the estimate of Rs. 8,95,741. The statement appended to the Chief Accountant's Report, showing all new works for which grants were provided, the expenditure incurred during the year and the balances required to be renewed, indicates that while the available grants at the commencement of the year amounted to Rs. 3,90,813, the Executive were able to spend Rs. 1,77,503 or about 45 per cent. against 47 per cent. which they were able to spend out of the sanctioned grants in the year preceding.

12. **PLAGUE EXPENDITURE.**—The expenditure on plague operations during the year amounted to Rs. 1,29,957 against Rs. 1,22,912, showing an increase of Rs. 7,045. The total outlay on plague measures from its outbreak upto the close of the year under review aggregated Rs. 82,27,397.

13. **STREET IMPROVEMENTS.**—During the year, amounts aggregating Rs. 4,13,650 were made available for payment of compensation in respect of set-backs acquired. Against this sum, only Rs. 2,18,873 were actually paid, leaving a balance of Rs. 1,94,777 which has been renewed for expenditure during 1917-18. The undischarged commitments upto 15th July 1917 in regard to set-backs already acquired and sanctioned to be acquired amounted to Rs. 9,90,371, against which the funds sanctioned aggregated Rs. 4,67,525 *plus* Rs. 25,147 realized by the sale proceeds of set-forward lands and recoveries of "enhanced values" during 1916-17 which will go to meet set-back payments. The liabilities in respect of street improvements are likely to be considerably augmented during the current year. The question of enunciating a definite policy in respect of street improvements is under consideration for a long time and the necessity for a very early decision in the matter cannot be too strongly emphasized.

14. **CAPITAL DEBT.**—No loan was raised during the year under review. Rs. 1,63,780 having been paid during the year towards reduction of debt, the total Capital Debt of the Corporation decreased from Rs. 7,44,00,775 to Rs. 7,42,36,995. Against this debt the total Sinking Fund Investments aggregated Rs. 1,80,81,730, leaving a net debt liability of Rs. 5,61,55,265 against Rs. 5,78,95,895 in the preceding year.

15. The following is a statement showing the various kinds of Paper held in the Sinking Fund at the close of the year :—

					Rs.
5	per cent.	Municipal Debentures	...	...	...
4	"	"	...	...	...
4	"	Bombay Port Trust Debentures	...	...	...
4	"	Bombay Improvement Trust Debentures	...	...	...
4	"	Bombay Improvement Trust Sterling Bonds	...	...	...
4	"	Government Paper of the Conversion Loan of 1916	...	...	...
3½	"	Government Paper	...	...	...

A reference was made in the Committee's review of the report for the year 1915-16 to the depreciation of these securities and proposals were invited from the Commissioner for an adjustment between the face value and the market value of these securities. Since the close of the year, however, a re-arrangement of the Paper held in the Sinking Fund and the other Special Funds has resulted in the Sinking Fund holding of 3½ per cent. Government Paper being substituted by 5½ per cent. Government War Bonds. Moreover,

the other securities held in the Sinking Fund have been so arranged that no demand will be made for a long series of years on any of the Municipal, Port Trust or C. I. Trust Debentures. The question of depreciation on these bonds does not therefore arise.

16. **STORES AUDIT.**—During the year the reserve stock was verified and the result was very satisfactory. The stores in stock on the last day of the year were valued at Rs. 5,35,267 against Rs. 3,54,171 in the preceding year, showing an increase of Rs. 1,81,096. The Standing Committee will await a report from the Commissioner regarding this increase. In the balance of surplus and obsolete stores there was a slight reduction from Rs. 4,581 to Rs. 3,182.

17. **TEST AUDIT.**—The Chief Accountant's test audit was continued during the year. The reports and correspondence regarding the test audit carried out by that officer are still under the consideration of a Committee of the Corporation and their report as to the results so far obtained and as to the desirability of extending the scope of test audit is awaited.

Assessment and Collection of Taxes.

18. The number of properties on the Assessment Book increased from 62,356 in the previous year to 63,051 in the year of report. 6,763 properties were exempted from the General Tax as being of insignificant value against 6,206 in the year previous, and 2,166 non-Municipal properties were exempted under Section 143 of the Municipal Act against 2,405 in the preceding year. Under the same Section, 1,707 Municipal properties were not assessed, 8 more than in the previous year. The net result was an increase of 369 in the total number of properties assessed to the General Tax from 52,046 in the previous year to 52,415 in the year of report.

19. The year under review witnessed a further advance of Rs. 18 lakhs in the rateable assessment of properties. During the previous year it had risen from Rs. 5,38,67,232 to Rs. 5,70,83,834. In the year of report it rose to Rs. 5,88,81,972. Opening with a gross assessment of Rs. 6,40,01,716, the year closed with an assessment of Rs. 6,54,13,855 against Rs. 6,34,16,191 at the end of the year previous. 3,531 complaints were made during the year against 5,079 in the preceding year. Only 13 appeals were made to the Chief Judge of the Court of Small Causes, of which 11 were settled out of Court or withdrawn by the appellants, and in the remaining 2 cases, the valuations were reduced by the Court.

20. Inclusive of demands in respect of previous years amounting to Rs. 10,078, the total demand on account of property taxes aggregated Rs. 95,07,293 against Rs. 92,95,107 in the preceding year, showing a substantial increase of Rs. 2,12,186. There was also an increase of Rs. 1,76,753 in the gross collections for the year, which amounted to Rs. 93,93,883. The outstanding balances on account of property taxes amounted to Rs. 62,492 against Rs. 40,137 in the previous year.

21. The claims for drawback admitted during the year numbered 5,194 against 5,696 in the previous year, and the amount of drawback allowed aggregated Rs. 82,599 against Rs. 87,602 in the preceding year. The question of revision of the rules in force regarding refunds and drawbacks is still under the consideration of a Committee of the Corporation.

22. The receipts from the General Tax aggregated Rs. 54,22,342 against Rs. 54,37,751 in the previous year, showing a slight decrease of Rs. 15,409. There was, however, a large increase in the receipts from the Water Tax, which amounted to Rs. 24,71,834 against Rs. 23,23,021 in the preceding year. The Halalkhore Tax, inclusive of charges for special service, likewise yielded an increased revenue of Rs. 15,25,637 against Rs. 14,68,587 realized in the year previous.

23. The receipts from the Wheel Tax aggregated Rs. 5,40,649, exclusive of Rs. 20,767 derived from the right of collecting tolls at the Mahim and Sion Causeways, against Rs. 4,96,340 realized from the tax in the year previous. During the year, 3,437 four-wheeled vehicles were taxed against 3,517 in the preceding year and 3,690 in the year 1914-15; and 928 two-wheeled vehicles against 908 in the previous year. There was, however, a substantial increase in the number of motor cars taxed during the year, which rose from 1,346 in the previous year to 1,734 in the year of report. 317 motor cycles were taxed during the year against 313 in the previous year.

24. The gross collections from Town Duties for the year aggregated Rs. 38,85,305 against Rs. 36,60,101 in the previous year and the refunds allowed in respect of goods exported amounted to Rs. 20,44,046 against Rs. 16,93,443, the net revenue thus amounting to Rs. 18,41,259 against Rs. 19,66,658, showing a decrease of Rs. 1,25,399. This decrease was chiefly due to heavy exports of sugar, grain, flour and ghee for military purposes.

Public Works.

25. GENERAL BRANCH.—Several projects relating to Markets, Cemeteries, Stables, Chawls, Ward Offices, Staff Quarters, Hospitals, Primary Schools, Conveniences, Garden structures, etc., were under contemplation in the year of report and plans and estimates were prepared but, as in the previous year, the actual works were held in abeyance for financial reasons. The construction of chawls for halalkhores and biggaries at Valpakhadi and of semi-permanent chawls for halalkhores at Tardeo Flats was in progress. The work of constructing semi-permanent quarters for halalkhores on the Foras Tank site was completed. The work of removing the Health Camps, sterilizer, etc., from the Northbrook Garden and re-erecting the same at the morgue site was practically finished. The works of constructing the Superintendent's quarters at the Acworth Leper Asylum at Matunga, and of painting certain Markets and Health Department stables were also completed. Most of the new works carried out by the General Branch of the Executive Engineer's Department were of a minor character, the expenditure involved amounting to about Rs. 80,000. The building and repair works carried out through the agency of the petty works contractor amounted to Rs. 76,300. The registration of the class and floor area of tenements in new and altered buildings in the City, started two years ago, was continued, and 1,102 buildings were surveyed during the year for the purpose, the number of buildings surveyed since the commencement of the work totalling 3,345. The work of revision of the valuation of Municipal properties was in progress. Only the list of E Ward could be revised during the year of report. This is a laborious work involving investigation of the titles of properties, the dates of their acquisition or construction, the remeasuring of their areas, the ascertaining of their original and present values and the preparation of relative plans.

26. DRAINAGE.—The engines and pumps in the New Pumping Station at Love Grove worked fairly well. Owing to the higher lift entailed in pumping through the Old High Level Outfall during the fair season of the preceding year, when the new Low Level Outfall was not available, the machinery was subjected to excessive wear and breakage. Some of the broken parts of the machinery were replaced as soon as possible and orders for the rest were placed with the manufacturers of the plant in England, but owing to the war the manufacturers have not yet been able to deliver all the parts. In the early part of the year of report, there were a few more breakages in the machinery while sewage was being pumped through the Old High Level Outfall and temporary repairs had to be effected. The completed portion of the Low Level Outfall was again brought into use from the 6th June 1916, and during the monsoon a short diversion was laid from the sea end of the left-hand barrel at an angle to the permanent work to permit of the discharge of sewage to sea without interfering with the work of construction. It is hoped that early in the next

cold season it will be possible to place this diversion further out to sea as it is not desirable to revert again to the use of the Old High Level Outfall owing to the heavy strain to which the pumps would be subjected in consequence of the higher lift.

27. The work of constructing the New Low Level Outfall at Love Grove was continued during the year and a further length of about 400 feet was constructed, thus making a total length of 1,567 feet of the outfall from the Engine House. In addition to the portion of the outfall actually constructed, pipes sufficient for an extension of 275 feet have been built and concrete blocks sufficient to carry the work forward 600 feet kept ready.

28. The Colaba Air Compressor Station and the five Ejector Stations worked satisfactorily during the year. The complaints previously received during the monsoon period of a surcharge in the sewers of No. 4 District were to a great extent obviated by the laying of a 12" storm-water overflow from the sewer into the sea near Pilot Bunder. The Love Grove Air Compressor Station and the several Ejector Stations connected with it worked pretty satisfactorily during the year. A further portion of the 15" cast iron sealed sewage main in Fergusson Road was renewed and the work of replacing the 8" steel sewage main in Warden Road by a 12" cast iron main carried out. Owing to the continuance of the war no progress could be made with the work of diversion of the storm-water channel from Love Grove to Worli and of the provision of pumps at Worli for the disposal of storm-water. The Centrifugal Pump erected at the storm-water outlet at Worli for abating in the meanwhile the nuisance arising from the stagnant water in the channel during the fair season, worked efficiently and much of the usual flooding of the low-lying localities in the neighbourhood of the channel was prevented during the year. The work of constructing the second section of the additional main sewer from Clerk Road to the junction of Lamington Road and Gilder Lane was completed. This section, together with the first section extending from the Love Grove Pumping Station to Clerk Road, worked very satisfactorily during the year. The third section of the sewer from the junction of Lamington Road and Gilder Lane to the junction of Charni Road and Khétwadi Back Road, which was also taken in hand during the year, has since been carried to completion. The total certified expenditure on the three sections upto the end of the year amounted to Rs. 7,66,065. All the main works at Love Grove in connection with the measures for the surcharging of sewers have been completed, only a few subsidiary works being postponed owing to the difficulty in procuring materials. The total certified expenditure including that on the subsidiary works amounted to Rs. 17,99,889 upto the end of the year. Mr. Midgley Taylor's further report regarding the sewerage of the north of the Island with special reference to the type of power to be adopted at the Pumping Station is still under the consideration of the Municipal Executive. The work of constructing the main sewers had again to be postponed for financial reasons.

29. Great difficulty was experienced after the close of the monsoon in obtaining sufficient coal from the contractors to keep the Love Grove Pumping and Air Compressor Stations at work and on several occasions ready coal had to be purchased from the local market. The assistance of the local Government was eventually applied for and, thanks to the kind offices of Mr. P. R. Cadell, C.I.E., I.C.S., Chief Secretary to Government, in the matter, coal began to come forward in sufficient quantities soon after the close of the year.

30. During the year 255 street connections were made against 340 in the preceding year, at a cost of Rs. 14,191. In addition to these, 185 storm-water connections were made, costing Rs. 7,265, against 133 in the preceding year. Action to get properties in the Malabar Hill District connected with the new sewers was continued. Three notices were served and all of them were

complied with. 23 manhole frames and covers were provided over some of the storm-water drains in the City. 1,603 improved concrete covers were provided over storm-water entrances. These covers have proved effective in arresting the breeding of mosquitoes.

31. **STREETS AND BUILDINGS.**—3,286 building applications were received during the year against 3,461. 376 notices were issued for removal of unsafe buildings against 338 in the preceding year. Of these, 319 were complied with. In one case the objectionable structure was removed by the Municipality and 56 cases were pending at the close of the year. 25 buildings or parts of buildings fell during the year against 26 in the year preceding. In 18 cases no injury was done and in the remaining cases 17 persons were injured and 7 killed. Action was taken for the removal of 166 inflammable and insanitary huts, of which 126 were removed, 9 allowed to remain and 31 cases were pending at the close of the year. 21 notices were issued, under Section 378 of the Municipal Act, for the improvement of insanitary buildings. In 10 cases the owners complied with the requisitions, and the remaining 11 cases were pending at the close of the year.

32. 602 prosecutions were instituted against 674 in the previous year. 180 cases were withdrawn on compliance with the requirements of the Department. In 141 cases the parties were warned and discharged, while 172 persons were convicted and fined, and 109 cases were pending at the close of the year.

33. The area of roads metalled and patched during the year was 6,560,292 square feet against 5,551,431 square feet, and the total amount spent on repairs and maintenance was Rs. 6,37,772 against Rs. 6,37,379, the rate for full metalling working out at 10·98 pies per square foot against 10·87 pies in the preceding year. The rate for the year under review was slightly higher. Considerable difficulty was experienced during the first eight months of the year on account of scarcity of labour and cartage and the deficient and unsatisfactory supply of materials, but the conditions improved towards the close of the year, when good progress was made with the strengthening and cambering of many roads. Out of 169 miles of road, 26 miles were disturbed in connection with pipes, cables, &c., against 29½ miles in the preceding year. The operations of the Tramways Co., the Gas Co., the Telephone Co., and of the Tata Hydro-Electric Co., were responsible for the disturbance of about 16½ miles. Roads measuring 22,99,090 square feet were treated with tar at a cost of Rs. 74,229. Out of the provision of Rs. 50,000 made in the Budget for improving the foundations of roads, 7 roads or portions of roads carrying heavy traffic and covering an area of 1,09,190 square feet were provided with hand-set rubble bottoming and a portion of Frere Road from Carnac Bridge to Ahmedabad Street was taken in hand for cement concrete bottoming.

34. The extension of Lady Hardinge Road eastward to the G. I. P. Railway level-crossing at Matunga was completed during the year. Mahim Bazar Road, now called Cadell Road, and Bomanji Petit Road were specially taken up for widening. All the vacant land lying within the set-back lines of Nesbit Road and of Worli Road from the Post Office to the storm-water channel has been acquired. In all land measuring 4,365 square yards of the estimated value of Rs. 1,80,244 was added to the streets, the actual expenditure on general street improvement amounting to Rs. 2,18,872. The work of revision of set-back lines, commenced in June 1913, was continued during the year and a new and comprehensive register of set-backs was also started. Eight streets were taken over by the Municipality during the year and declared public. Ten private streets were under action for improvement under Section 305 of the Municipal Act. New foot-paths were formed at several places and pavement of the existing foot-paths was undertaken at about a dozen places. The experiment tried in the preceding year with Jamba teak-wood block pavement

on a portion of Frere Road having proved successful, it is intended to treat similarly a further portion of the road in the year 1917-18. 334 new road side trees were planted in 15 streets and the work of improving the condition of existing road side trees was continued.

35. TRAMWAYS.—No extensions of tramways were carried out during the year. Small portions of the tracks at Foras Road and Bellasis Road junction and at Byculla Bridge were renewed and a length of about 400 feet of single line in a portion of Charni Road was converted into a double line.

36. OVERBRIDGES.—The Currey Road Overbridge has been completed with the exception of the approach along DeLisle Road which could not be taken in hand as the B. B. & C. I. Railway Company were not ready for the work. As the Railway Board had not sanctioned funds, the work of constructing the proposed Clerk Road Overbridge on the B. B. & C. I. Railway could not be proceeded with by the Railway Authorities. Some of the land required for the overbridge at DeLisle Road over the B. B. & C. I. Railway has been acquired. Detailed plans of the Dadar Overbridge were under preparation by the Railway Authorities.

37. LIGHTING.—6,523 gas lamps and 1,189 kerosene oil lamps were maintained during the year at a cost of Rs. 4,36,692 and Rs. 32,877 respectively. These figures indicate an increase of 270 in the number of gas lamps and a decrease of 155 in the number of kerosene oil lamps and a net increase of Rs. 47,396. This increase was partly due to the enhanced rates that had to be paid for kerosene oil.

38. WORKSHOPS.—The value of departmental and private work turned out at the Workshops has been computed at Rs. 2,43,058 against Rs. 2,88,219 during the preceding year, the net result of the year's transactions being a balance of Rs. 8,641 in favour of the Workshops. The work of construction of the third and final section of the New Workshops at Foras Road was in progress at the close of the year. The machinery, tools, plant and workmen were removed from the Old Workshops at Paltan Road to the New Workshops. The four motor-cars provided for the Engineering and Health Departments and the supernumerary car covered 26,690 miles at a running cost of 5.53 annas per mile as compared with 5.19 annas in the preceding year.

39. WATER WORKS.—During the year the Water Works were maintained in a state of efficiency. The works of rendering the filters at the Malabar Hill Reservoir mosquito-proof and of improving the old outlets of filters Nos. 1 to 6 at the Bbandarwada Reservoir were in progress. The work of repairs to the Tansa duct in the Salsette and Kasheli Divisions was also in progress. Towards the close of the year a special investigation of the water supply was made by Lt.-Col. W. W. Clemesha, M.D., I.M.S., Sanitary Commissioner with the Government of India, whose services were specially applied for by the Corporation.

40. The rainfall for the year at all the lakes was higher than that of the preceding year. At Tansa Lake it was 113.75 inches against 92.08 in 1915, and was 22 per cent. above the average for the preceding five years; at Vehar it was 99.38 inches against 91.60 in 1915 and was 18 per cent. above the average; at Tulsi it was 92.35 inches against 85.46 in 1915 and was 3½ per cent. above the average. Tansa Lake overflowed continuously from the 2nd August to 6th October and Tulsi from the 21st September 1916 to 30th September. Vehar Lake did not overflow during the year.

41. 460 new water connections were made and 264 were cut off for various reasons, of which 76 were restored. There were therefore 25,542 connections against 25,270 at the close of the preceding year. Of these, 2,035 were metered against 2,590 in the year 1915-16.

42. 11,274 underground and 25,628 aboveground leaks and defects were detected and remedied by the Waste Prevention Branch of the Water Works Department. The total length of mains examined, excluding second and subsequent tests was 4,704 feet against 62,669 feet in the previous year and the length including second and subsequent tests was 25,41,769 feet against 23,82,793 feet. The total length of mains of all sizes sounded was 114 miles and 3,955 feet. The work of renewing, enlarging and extending the water mains was practically stopped during the year owing to the enhanced cost of pipes. Only about 3,410 feet of new mains were laid during the whole period.

Fire Brigade.

43. Throughout the year the Fire Brigade was maintained in a state of thorough efficiency. There were 251 calls to fires, of which 35 were false alarms and in several cases more than one call was received for the same fire. The fire alarm system having been completed during the year, there were 73 fire alarms in working order and 53 per cent. of the calls to fires were received by fire alarms, indicating that the positions of the alarms are now sufficiently well known to the public. The actual number of fires was 182 against 176 in the previous year. Of these, 94 fires were extinguished by the Brigade and 88 were extinguished before its arrival. The constant supply of water has facilitated the work of the Brigade considerably. There has also been a considerable reduction in the estimated loss of damage during the two years subsequent to the introduction of the constant supply. The quinquennial average of fire loss for the years 1910-11 to 1914-15 was Rs. 27,79,360. Deducting from this the average loss for the same period of about Rs. 17,25,000 due to unusually big cotton conflagrations at Colaba, the average loss stands at Rs. 10,54,360 compared with which the estimated loss of Rs. 6,36,503 for the year 1915-16 and of Rs. 5,57,837 for the year 1916-17, shows a substantial reduction. Of the total amount of damage, Rs. 5,36,124 represented insured, and Rs. 21,713 uninsured property. No lives were lost at the fires, but at one of the fires a baby 12 months old received injuries to which it subsequently succumbed. The Brigade attended at 11 cases of fallen houses, where 8 persons lost their lives by being over-whelmed and 13 received slight injuries.

Public Gardens.

44. The number of visitors at the Victoria Gardens increased from 1,544,708 in the year previous to 1,582,500 in the year of report. As in the previous two years, Their Excellencies Lord and Lady Willingdon were pleased to allow their Band to play at the Municipal Bandstands between February and April, and it gave four performances during the period which were greatly appreciated by the public. The question of improving the Victoria Gardens is still under the consideration of a Committee of the Corporation, but in the meantime small improvements, such as, improving the portion of the outer garden between the Museum and Parel Road, removing the unsightly palms and bamboos from the immediate neighbourhood of the entrance gate, repairing and cleaning the gateway, and conversion of a strip 10-feet wide on each side of the avenue leading from the main gate to the circle in front of the garden office into a really attractive flower garden, have been taken in hand. The work of converting the Northbrook and the Falkland Road Gardens into recreation grounds was in progress during the year. Turf was laid and the central group of palms planted in the Bhattia Baug, now named Victoria Square. The statue of the late Sir Dinshaw Manockji Petit was erected in this garden.

45. Among the additions to the Zoo at the Victoria Gardens may be noted a rare albino specimen of the Rib-faced Deer presented by Mr. F. J. Deboo, a Spotted Deer by Mr. R. Hopper, 13 large Pin-tailed Sandgrouse by the Bombay Natural History Society, a Leopard Cub by Mr. K. V. Dhopeshwarkar, an Arabian Gazelle by Gunner Wood of H. M. S. "Dufferin" and a Persian Gazelle by Mrs. D. E. Alexandra. The Corporation are very grateful to these and other donors for these gifts.

46. There was a slight recrudescence of Bovine Tuberculosis amongst some of the animals in the gardens, and precautionary measures were promptly taken and the cages and enclosures were dug up, exposed to the sun and light and thoroughly disinfected. The thanks of the Corporation are again due to Major Liston for the *post-mortem* and bacteriological examination of dead animals and for his ready assistance and advice in regard to the treatment of animals.

47. VICTORIA AND ALBERT MUSEUM.—The Museum was open to the public during 313 days of the year. The total number of visitors was 762,144 against 745,216 in 1915-16, giving a daily average of 2,442 against 2,373 in the preceding year. The work of substituting new show cases for old ones was completed during the year and a complete list of all articles together with a list of all the books in the Museum Library was prepared. The Standing Committee will be glad if the Commissioner will consider the desirability of printing the catalogue for the information of the public.

Health Department.

48. The gradual improvement observed in the health conditions of the City since the year 1900 was maintained during the year of report. The vital statistics for the year, however, suffer in comparison with the returns of the preceding year which was distinguished by exceptionally favourable features and was the healthiest in the annals of the City. There was a fall of 8,172 in the mortality for that year as compared with that of the preceding year. There is, therefore, a seeming set-back, the mortality for the year under review showing an increase of 6,893 over that of the year 1915. Compared, however, with the average vital statistics of the quinquennium preceding the year 1915, the returns for the year show a saving of 3,927 lives. Compared, again, with the decennial mean, there was a saving of 5,515 lives or a reduction of 5.66 per mille in the mortality of the City. It should also be remembered that the rate of mortality has been calculated on the Census figure for 1911, whereas there have been ample indications of a considerable increase in population over the Census figure of 979,445.

49. 21,180 births were registered during the calendar year 1916 against 20,052 during the preceding twelve months. The birth-rate for the year was 21.62 which was higher than that of 1915 (20.47), and also higher than the decennial average (1906-1915) which was 20.69.

50. The number of registered births does not, however, represent the whole of the infant population of Bombay, inasmuch as a considerable number of children of mothers belonging to the City but born outside it and brought into the City after birth is not registered. During the year under review 6,269 children were vaccinated. Taking these into account as well as the percentage of the unregistered children who must have escaped vaccination owing to death or delays, the probable infant population of the City has been computed at 29,499, giving a birth-rate of 30·11. The following table indicates the birth-rate among the principal communities :—

Communities.	Birth-rate for 1915.	Birth-rate for 1916.
Hindus	19.22	20.56
Mussalmans...	21.16	22.20
Parsees	26.89	28.03
Jews... ..	34.56	32.28
Native Christians	27.66	27.37
Eurasians	34.14	35.10
Europeans	14.88	15.46
Buddhists	27.68	13.84

51. A census taken on the 29th May 1916 of children upto 2 years of age in 50 thickly populated chawls, selected from the different wards of the City, revealed that out of 361 children ascertained to have been born in the chawls 351 or 97·3 per cent. were registered and that 10 or 2·7 escaped registration against 1·54 in 1915 and 1·25 in 1914.

52. The total number of deaths registered from all causes during the year was 30,574 against 23,681 in 1915, giving a death-rate of 31·21 against 24·17 in 1915, which was the lowest recorded since 1874. The figure 30,574 includes 1,642 deaths among new arrivals not belonging to the City, whereas in the year 1915 the deaths of new arrivals numbered only 596. The diseases which contributed principally to the increase in mortality were plague and small-pox, which were prevalent in an epidemic form, and measles and diseases of the respiratory system.

53. Plague attained epidemic proportions during the year and was responsible for 1,987 deaths against 599 in the preceding year. Compared with the mean rate of the preceding quinquennium (1911-1915), the death-rate from plague was 40 lower in the year of report. The usual preventive and precautionary measures, *viz.*, inoculation, rat-destruction, evacuation and disinfection, were continued during the year. It is for consideration whether nothing else can be done to exterminate or at least to check the yearly ravages of a pest which has since the year 1896 exacted a toll of 1,86,572 human lives in the City of Bombay alone. Small-pox claimed 1,021 victims, 662 more than in 1915. Usual facilities were provided for the vaccination of Hajis, and out of 2,632 pilgrims who left Bombay for the Haj in September and October, 2,499 were vaccinated in Bombay before embarkation. Facilities were also afforded to the public for vaccination and revaccination, and 50,461 persons were vaccinated. Of these, 19,215 were primarily vaccinated and 31,746 revaccinated. Cholera was prevalent throughout the year but did not reach epidemic form, the number of deaths registered from the disease being 141 against 16 in the preceding twelve months. To Tuberculosis were attributed 1,902 deaths against 1,710 in 1915. Of these, 1,680 deaths were credited to Phthisis, being 269 more than in the previous year. The mortality from Tuberculosis and Phthisis was however lower than the preceding quinquennial mean by 346 and 188, respectively.

54. In all 2,141 deaths from fevers were registered, showing an increase of 150 as compared with the year previous, but a decrease of 807 as compared with the preceding quinquennial average. The death-rate 2·18 was the lowest since the year 1848 except in 1915 (2·13). 238 deaths were attributed to Malaria, being 30 more than in the preceding year, but 37 less than the average of the previous quinquennium. The anti-malaria operations were continued during the year. 68 wells were filled in and 36 wells were covered over. 18,190 tabloids of quinine hydrochloride were distributed free amongst the poor, who were visited in their homes, and amongst charitable institutions in the City. A spleen census was taken as before, and efforts to educate the public in the causes and prevalence of Malaria by lectures and demonstrations were continued. A considerable proportion of the infected wells and breeding places in the southern part of the Island having been protected, it was considered unnecessary to retain the Malaria staff as a separate branch of the Health Department and it was proposed in the year 1915 to carry on the malaria operations in future as part of the ordinary duties of the Health Department. In view, however, of the conditions since created by the introduction of the disease amongst the troops coming from Mesopotamia, the Health Officer considered that the staff should be retained for some time, and the special staff was accordingly maintained during the year of report.

55. The death-rate amongst the Europeans is usually the lowest. The year of report, however, would appear to be one of great fatality for them, the death-rate registered being 33·88 against 13·62 in the year previous. It may

be noted, however, that of the total number of 403 deaths among Europeans, 219 were of soldiers in war hospitals. Deducting this number, the balance of 184 deaths among the civilian European population gives the death-rate of 15.46 per 1,000 of population in the community and this rate is below the average of the last ten years (17.13). The lowest mortality was recorded among the Parsis, being 19.22 against 18.82 in the preceding year. The death-rate amongst the Jews was the next lowest, being 28.04 against 22.28. Amongst the Eurasians it was 29.13 against 24.35, amongst the Native Christians 30.09 against 27.69, and amongst Hindus 30.65 against 22.77, in the previous year. The Mahomedans as usual recorded the highest death-rate of 36.91 against 30.89 in 1915, the community having suffered the most from Phthisis and Diseases of the Respiratory system.

56. With the marked rise in the general mortality of the City there was also a deplorable increase in infant mortality. In the year previous, 8,215 deaths of infants upto one year of age were registered, against 6,602. The death-rate per mille of births registered, was 387.86 against 329.2 in 1915. It is, however, lower than the preceding decennial average by 27.77. With a view to gauging, if possible, the effect of economic conditions on the infant mortality of the City, a new tabulation was opened by the Health Officer during the preceding year for classifying births according to the number of tenements occupied by the parents as also the number of deaths that occurred among these infants. This classification had covered during that year a period of only three months from October to December 1915, which was too short to warrant any definite conclusions from the figures suggesting that the proportion of deaths amongst infants decreased with the number of rooms occupied. The results of a similar classification carried out during the year 1916 harmonise with those of the preceding period and point to the same conclusion, as will be seen from the subjoined statement :—

	1 room and under.	2 rooms.	3 rooms.	4 or more rooms.	Road side.	Hospitals.	Total.
Births	14,330	2,698	817	743	59	2,548	21,180
Infant mortality	6,508	1,007	188	177	101	234	8,215
Infant mortality per 100 births registered	45.44	37.39	23.01	23.82	171.18	9.18	38.78

The Municipal Nurses and Midwives and the Lady Health Visitors of the Bombay Sanitary Association and the Lady Willingdon Scheme continued their efforts to educate and assist the backward classes in the upbringing of their children. 1,354 confinements were attended by the Municipal Nurses against 1,425 in 1915, and their house to house visits numbered 32,111 against 28,276 in the previous year. Out of 376 cases admitted into the Municipal Maternity Home during the year 1916, 352 cases were confined, showing an increase of 103 over 1915. The promoters of the Lady Willingdon Scheme opened two more Maternity Homes during the year, one at Parel and the other at Colaba. The increasing number of women confined in the three homes indicates the growing popularity of such institutions and the necessity for the provision of additional homes. During the year a letter was received by the Corporation from Her Excellency Lady Willingdon intimating that she had received an offer of Rs. 5 lakhs to be devoted to building an hospital for maternity and diseases of women and children and suggesting that a Committee be appointed to meet His Excellency the Governor and herself and the representative of the donor and the Surgeon-General. The Corporation accordingly deputed certain Councillors to wait upon Their Excellencies in connection with the matter. As agreed to at that conference, negotiations are being carried on with the representative of the donor in regard to a scheme for providing additional maternity homes for the poor.

57. 104,565 persons availed themselves of the free medical aid given at the Municipal dispensaries against 101,707 in 1915. Of these, 1,516 patients were seen at their houses. The number of persons treated at the Aided Charitable Dispensaries at Colaba and Victoria Bunder was 9,482, of whom 30 were seen at their houses. 2,665 notifications of Infectious Diseases were received during the year from Medical Practitioners against 836 during the preceding twelve months.

58. 6,137 articles were examined in the Municipal Laboratory during the year, showing a decrease of 282 in the number of samples examined during the year previous. Of the 6,137 samples examined during the year, 1,909 were examined chemically and 4,228 bacteriologically. 126 jars of rat poison and 225 jars of mercurial solution were prepared in the Laboratory during the year. 1,272 capillary tubes of Glycerinated Vaccine were examined for the presence of extraneous micro-organisms, before being used for the Vaccination Department, and in none of the tubes the organisms were detected.

59. Considerable work was thrown on the authorities in charge of the Municipal Infectious Diseases Hospitals owing to the prevalence of Plague and Small-pox in an epidemic form. The Small-pox epidemic was the heaviest on record except that of 1905. There were 1,864 admissions to the Arthur Road Hospital during the year of report, against 578 in the previous year. Of these 1,142 were cases of Small-pox, 113 of Chicken-pox, 35 of Measles, 118 of Cholera, 18 of Mumps, and 277 of Chiggre. 284 cases proved fatal. Of the 1,142 Small-pox cases, 801 were vaccinated and 341 unvaccinated, and the incidence of mortality amongst these two sets of cases was 13.7 and 32.3 respectively, proving as usual the efficacy of vaccination in reducing the case mortality rate amongst those protected by it. The admissions to the Maratha Hospital numbered 883 against 161 in 1915. Of these, 411 were Plague cases, the mortality rate amongst them being 77.23 per cent. The proposed improvements at the Arthur Road Hospital and the provision of wards for better class of patients and Europeans could not be taken in hand during the year for want of funds.

60. For the removal of the City refuse mechanical means of transport are being gradually introduced and manual labour for the removal of night-soil is also being gradually replaced by the water carriage system. During the year, 756,426 cart-loads of rubbish were emptied at the Tardeo Flats and other places against 661,485 in the preceding year. This increase was due to the passing of troops through the City and the increase in the milch cattle and bullock stables and general increase of trade. 92,924 night-soil and cesspool carts and 3,963,803 night-soil baskets were emptied at the several night-soil depôts as compared with 87,837 night-soil and cesspool carts and 4,135,438 night-soil baskets in the foregoing year.

61. During the year the Health Department had to work under certain disadvantages. Owing to war conditions and other difficulties the execution of several necessary works already sanctioned was retarded. Although funds have been provided for the purchase of additional refuse motors, the continuation of the war prevented their importation during the year under report. No progress could be made with the work of installing an incinerator. The question of improving the conservancy system and its supervision was still under the consideration of a Committee of the Corporation.

Licenses.

62. Consequent on the transfer of the work of licensing the milk trade to the Health Department from the License Department, there was a reduction in the number of licenses issued during the year by the latter Department. In all 10,184 licenses were issued against 12,374 in the preceding year. Notwithstanding this decrease, the receipts increased from Rs. 1,13,521-12-0 to Rs. 1,13,558. During the year the storage of gunny bags and of methylated spirit over 10 gallons was made licensable by an amendment of Section 394 of

the Municipal Act, and the storage of cotton in pressed bales or boras or loose in or upon or in the proximity of dwelling houses was brought under control by a further amendment of the same Section. A draft of revised bye-laws in regard to horse and bullock stables was under the consideration of a Committee of the Corporation during the year. These bye-laws have since been approved by the Corporation and notified.

Markets.

63. There was an increase in the receipts from the Markets and Slaughter Houses from Rs. 5,88,814 in the previous year to Rs. 6,22,859. This enhancement was principally due to an increase of Rs. 13,200 in the receipts from Fair Ground Rent and Feeding Fees at the Bandra Slaughter Houses owing to keen competition amongst the bidders for the right and an increase of Rs. 13,898 in the collection of Slaughter Fees, due to a considerably large number of animals slaughtered during the year to meet the demands from the Military authorities. There was also an increase of Rs. 3,705 in the receipts from Stall Rents and Squatters' Fees collected departmentally.

64. The quantity of unwholesome food destroyed during the year was 410,823 lbs. against 271,370 lbs. The quantity of contraband meat seized and destroyed was 5,970 lbs. against 3,596 lbs. in 1915-16.

Primary Education.

65. During the year under review 12 new Schools were opened, 7 Marathi, 1 Gujarati, and 4 Urdu, including 1 night school for Urdu boys. The number of Municipal Schools for the Depressed Classes increased from 15 to 16. Two special classes were also opened, one at the Sion Marathi Boys' School for Gujarathi boys and the other at the DeLisle Road Marathi School for Factory boys.

66. There were in all 195 schools with 23,987 pupils against 183 schools with 21,669 pupils in the preceding year. The number of aided schools increased from 132 to 140 and the number of pupils attending these schools rose from 15,536 to 15,623. These aided schools received a total grant-in-aid of Rs. 65,208 against Rs. 58,780 in the preceding year. The Schools Committee's receipts for the year aggregated Rs. 5,51,430 and the expenditure was Rs. 5,68,398 against Rs. 5,02,173 in the year previous, the increase being accounted for by the opening of new schools, provision of better quarters for some schools, employment of 121 additional teachers and improved equipment of schools.

67. The proportion of trained teachers to untrained teachers was 269 to 206 in Marathi schools. In the Gujarathi schools, however, it was 109 to 137 and in the Urdu schools 31 to 172. Efforts to increase the proportion of trained teachers were continued during the year. Several school teachers were sent for training to the Government Training Colleges at Poona and Ahmedabad with scholarships from the Committee and the three Training Classes opened in the City, for Gujarathi male teachers and Urdu male and lady teachers in the preceding year, were continued.

68. No further progress could be made with the work of constructing school buildings. It is, however, gratifying to note that after the temporary cessation of the Government contribution towards the cost of Municipal school buildings, Government were pleased to make a provision in their Budget for the year 1917-18 for the payment of special grants not exceeding Rs. 1,07,000, equal to half the expenditure actually incurred by the Municipality during the year on the construction of such buildings, and it may be hoped that the work will now be expedited. 25 schools were removed to better premises and additional accommodation was rented for 32 schools. The Schools Committee observe that with the exception of about a dozen schools, the Municipal Schools may now be regarded as satisfactorily located on the whole.

69. An offer was made by Bai Valibai, widow of Sheth Valabhadas Visram Mowji, in the year 1914 to make over to the Corporation the Gujarathi and Sanskrit Girls' School maintained by her at Kalbadevi with an endowment of Rs. 25,000 for maintenance. This offer was thankfully accepted by the Corporation. During the year of report the amount of Rs. 25,000 was received and the School was amalgamated with the Municipal Gujarathi Girls' School at Anantwadi and named after the donor "Valibai Girls' School." Another sum of Rs. 11,000 plus Rs. 860 interest in fulfilment of a bequest by the late Mr. Parmanand Raja was also received during the year and the Durgadevi Marathi Boys' School is named after the donor. An offer has been made by the Hon'ble Sir Ibrahim Rahimtoola, Kt., C.I.E., to bear the cost of a building to accommodate a Municipal dispensary and a school. Negotiations in regard to this offer have not yet been completed. The Corporation will cordially welcome and the City will greatly appreciate similar offers from philanthropic citizens.

70. At the instance of the Collector of Bombay, an important conference was held to consider the question of the education of factory children at which the members of the Schools Committee, the Director of Public Instruction and three representatives of the Millowners' Association were present. It was recognised that no measures could prove successful without the active co-operation of the millowners and it was agreed that the Schools Committee should open schools at places selected by the millowners, the latter undertaking to offer special inducements to factory children to attend the schools.

71. With the growing demand for free and compulsory education, the question of putting children in a fit condition, physically and mentally, so as to ensure full advantage being taken of the educational facilities that are given to them, will have to be carefully considered. The Corporation have already sanctioned measures for the medical inspection of Municipal school children for a further period of three years commencing with the 1st March 1917. The question of provision of meals for necessitous children has not yet been brought forward. Meanwhile, the Standing Committee note with great satisfaction that an effort was made in this direction by the Seva Sadan Society of Bombay who undertook to provide light refreshments to poor children in one Marathi Boys' School, one Marathi Girls' School, and one Urdu Boys' School. The cost of the incidental arrangements was borne by the Schools Committee. There is a wide field for similar social service in connection with the primary schools of the City. These schools ought to be the foci of considerable social activity, and it may be hoped that with the increasing interest that is being taken in the education of the City's children, voluntary agencies will come forward to co-operate with the School authorities in providing for play centres, happy evenings, holiday excursions and various other means of promoting the welfare of the school children.

Conclusion.

72. In conclusion the Standing Committee have much pleasure in putting on record their appreciation of the successful administration of Municipal affairs during the year by Mr. P. R. Cadell, C.I.E., I.C.S., Mr. S. M. Edwardes, C.V.O., C.S.I., I.C.S., and Mr. P. W. Monie, I.C.S., who held the office of Municipal Commissioner in succession during the year.

M. NISSIM,

Chairman of the Standing Committee.

MUNICIPAL CORPORATION OFFICE,

BOMBAY, 24th October 1917.

Annual Administration Report of the Municipal Commissioner for the City of Bombay for the year 1916-1917.

Introductory.

1. Mr. P. R. Cadell, C.I.E., I.C.S., held the office of Municipal Commissioner up to the 16th April 1916. Mr. S. M. Edwardes, C.V.O., C.S.I., I.C.S., who succeeded him went on combined leave for one year from the 16th October 1916. I acted as Municipal Commissioner from the 16th October 1916 to the 15th January 1917 and was appointed Municipal Commissioner from the 16th January 1917.

2. The general health of the City was on the whole satisfactory during the year.

I.—Corporation and Standing Committee.

THE CORPORATION.

3. The Hon'ble Mr. Chunilal Vijbhukandas Mehta, M.A., LL.B., was appointed President of the Corporation at the meeting held on the 3rd April 1916, and he held that appointment throughout the year.

4. Fifty-seven meetings of the Corporation and ninety-six meetings of the Committees of the Corporation other than those of the Standing Committee were held.

5. The changes which took place during the year in the personnel of the Corporation were as follows :—

Mr. S. M. Edwardes, C.V.O., C.S.I., I.C.S., resigned on the 12th April 1916, and in his place Mr. F. A. M. H. Vincent, M.V.O., was appointed by Government on the 20th April 1916.

Mr. A. H. A. Simcox, I.C.S., resigned on the 7th July 1916; and in his place the Hon'ble Mr. W. C. Shepherd, I.C.S., was appointed by Government on the 14th July 1916.

Mr. J. S. Wardlaw Milne resigned on the 19th July 1916 and in his place Mr. H. T. Gorrie was elected by the Chamber of Commerce on the 24th August 1916.

Mr. Nowrosji Jehangeer Gamudia died on the 21st July 1916 and in his place Mr. Behramji Nowrosji Gamudia was elected by the Ratepayers of A Ward on the 18th August 1916.

Mr. J. M. P. Muirhead resigned on the 17th October 1916 and in his place Mr. R. C. H. Barnard was appointed by Government on the 2nd December 1916.

6. The following Councillors were absent from the meetings of the Corporation for the period shown below for reasons approved by the Corporation under Section 17 (b) of the Municipal Act :—

Name.	Period.
The Hon'ble Sir Fazulbhoy Currimbhoy Ebrahim, Kt.	From the 29th January to 22nd February 1917.
Mr. J. A. D. McBain, C.I.E.	From the 14th April to 31st October 1916.
Mr. A. M. Tod	From the 5th April to 30th November 1916.

THE STANDING COMMITTEE.

7. The Hon'ble Mr. Salebhoy Karimji Barodawalla was appointed Chairman of the Standing Committee at the meeting held on the 7th April 1916, and he held that appointment throughout the year.

8. There were fifty-two regular meetings and one special meeting of the Standing Committee and twenty-five meetings of the Sub-Committees thereof.

9. There were forty-nine attendances of members for the audit of Municipal Accounts and eighty-three for cheque signing.

10. The following is the list of Municipal Councillors who held office on the 31st March 1917 :—

CHUNILAL VIJBHUKANDAS MEHTA, THE HONBLE MR., M.A., LL.B., J.P., J. President.

ABDUL SATAR AYUB GAYA, DR., L.M. & S., R (B Ward)	McBAIN, J. A. D., MR., C.I.E., J. P., R (A Ward).
*BALORISHNA WASSOODEW PANDLOORUNG, MR., J.P., G.	MADHAVJI VIRJI, MR., B.A., LL.B., R (A Ward).
BAPTISTA, JOSEPH, MR., L.C.B. (Bombay), B.A., LL.B. (Cantab.), BAR.-AT-LAW, R (E Ward)	MAGANLAL DALPATRAM KHAKHAR, MR., J. P., R (C Ward)
BARNARD, R. C. H., MR., J.P., G.	MAHOMEDBHOY CURRIMBHOY EBRAHIM, MR. J.P., G.
BEHRAMJI, NAVROSI GAMUDIA, MR., B.A., J.P. (A Ward)	MAHOMEDBHAI HAJEEBHAI LALJEE, THE HON'BLE MR., J.P., J.
‡§ BHALCHANDRA KRISHNA BHATAWADEKAR, Sir, KT., L.M., J.P., R (D Ward)	MAHOMED HUSEN A. HAVELIVALA, MR., BAR.-AT-LAW, R (E Ward)
*BYRAMJEE R. B. JEEJEEBHOY, MR., J.P., J.	MANAJEE RAJOOJEE KALEWAR, RAO SAHEB, R. (E Ward)
CASSAMALLY JAIRAJBHOY PEERBHOY, MR., J.P., J.	†*MIRZA ALI MOHAMMED KHAN, MR., M.A., LL.B., J.P., G.
CHANDRASEN DWARKADAS, MR., R (C Ward)	MAHOMED ISMAIL CURTAY, MR., R (C Ward)
†§ CHIMANLAL H. SETALVAD, THE HON'BLE MR., B.A., LL.B., J.P., U.	†MORESHWAR CHINTAMAN JAVLE, DR., J.P., R (G Ward)
† COWASJI JEHANGIR READYMONEY, MR., B.A. (Cantab.), J.P., J.	MULJI B. BARBHAYA, MR., J.P., G.
*† DAVID, SASSOON, Sir, BART., J.P., G.	*†NADIRSHAW H. E. SUKHIA, DR., L.M. & S., L.V.S.C. F.R.S.I. (London), J.P., R (A Ward).
† D'MONTE, D. A., DR., M.D., L.R.C.P. (London), L.M. & S., M.R.C.S., J.P., G.	† NARAYAN VISHVANATH MANDLIK, MR., B.A. LL.B., J.P., J.
DINSHA BAMANJI PESTANJI MASTER, DR., L.M. & S., J.P., R (C Ward)	*NISSIM, MEYER, MR., M.A., J.P., J.
†§ DINSHA EDALJI WACHA, THE HON'BLE MR., J.P., R (A Ward)	ORR, J. P., THE HON'BLE MR., C.S.I., I.C.S., J.P., G.
DINSHAW MANOCKJI PETIT, THE HON'BLE Sir, BART., J.P., J.	¶PHIROZE CURSETJI SETHNA, THE HON'BLE MR., J.P., J.
**FAZULBHOY CURRIMBHOY EBRAHIM, THE HON'BLE Sir, KT., J. P., R (G Ward)	POONSEY HIRJI MEISHERI, DR., L.M. & S., R (B Ward)
GORRIE, H. T., MR., J.F., C.C.	RAHIMTOOLA MEHERALLY CHINOY, MR., J. P., G.
GULAM HUSEN CURRIMBHOY EBRAHIM, MR., J.P., J.	*RAHIMTULLA CURRIMBHOY, MR., B.A., R (F Ward).
HAJI SULEMAN ABDUL WAHED, MR., J.P., G.	RAJARAM TUKARAM, MR., R (A Ward)
†HIRAJAL DAYABHAI NANAVATI, MR., B.A., LL.B., R (U Ward)	† RAMCHANDRA BHASKAR MANTRI, MR., J.P., R (D Ward).
HOOSEINBHOY ABDOLABHOY LALLJEE, MR., R (B Ward)	† RAMKRISHNA SHRIKRISHNA NAVALKAR, MR., B.A., LL.B., R (C Ward)
HOOSEINBHOY ABDULKADAR NAKHODA, DR., L.M. & S., J.P., R (B Ward)	RATANSHA TEMULJI NARIMAN, DR., M.D., F.R.M.S., J.P., J.
HUGHES, R. D., MR., J.P., J.	* SALEBHOY KARIMJI BARODAWALLA, THE HON'BLE MR. J. P., R (E Ward) (Chairman, Standing Committee)
*H. P. MODY, MR., M.A., LL.B., R (D Ward)	SHEPHERD, W. C., THE HON'BLE MR., I.C.S., J.P., G.
††* IBRAHIM RAHIMTOOLA, THE HON'BLE Sir, KT., C.I.E., J.P., R (B Ward)	SHERIF DEVJI CANJI, THE HON'BLE MR., R (B Ward).
JAMSETJI ARDASEER WADIA, MR., J.P., J.	* SHIAVUX SORABJI BATLIWALA, DR., L.M. & S., J.P., R (F Ward).
JAMSETJI JEJEEBHOY, Sir, BART., J.P., J.	SORABJI CURSETJI DHONDY, MR., R. (E Ward).
JEHANGIR BOMANJEE PETIT, MR., J.P., R (D Ward)	SUNDERRAO DINANATH NAVALKAR, MR., M.R.A.S.E. R (C Ward).
JEHANGIR DOSABHOY FEAMJI, MR., I.S.O., J.P., G.	TEMULJI BHIKAJI NARIMAN, Sir, KT., L.M., F.C.P.S., J.P., U.
†JEHANGIR J. CURSETJI, DR., M.D., L.R.C.P., L.R.C.S., R (C Ward)	TOD, A. M., MR., J.P., C.C.
JENKINS, J. D., THE HON'BLE MR., G.	*¶ VASANTRAO ANANDRAO DABHOLKAR, MR., J.P., G.
KARAMALLY PEERBHOY HAJI, MR., J.P., R (B Ward)	† VINCENT, F. A. M. H., MR., M.V.O., J.P., G.
KAVASJI EDALJI DADACHANJI, DR., L.M. & S., J.P., R (D Ward)	VITHALRAO KRISHNAJI VANDEKAR, RAO BAHADUR, J.P., J.
KHIMJI HIRJI KAYANI, MR., J. P., R (B Ward)	* WHYTE, A. H., MR., J. P., G.
LISTON, W. G., MAJOR, C.I.E., M.D., D.P.H., I.M.S., J.P., J.	

NOTE.—The letters against the names signify—R, that the Member was elected by the Ratepayers; J, by the Justices of the Peace; CC, by the Chamber of Commerce; U, by the University; and G, appointed by Government.

NOTE.—The marks against the names signify—*, Member of the Standing Committee; †, Member of the Schools Committee; ‡, Member of the Board of the City of Bombay Improvement Trust; §, Member of the Board of the Victoria Jubilee Technical Institute; ¶, Representative on the Board of Management of the Acworth Leper Asylum at Matunga; **, Representative on the Board of Trustees of the Prince of Wales Museum of Western India.

II.—Heads of Departments.

11. Dr. J. A. Turner, C.I.E., M.D., D.P.H., Executive Health Officer, was on combined leave from the 5th April to the 22nd November 1916, during which period Dr. B. K. Goldsmith, M.B., CH.B., D.P.H., Senior Assistant to the Health Officer, acted for him.

12. Mr. H. J. Trivess Smith, M.I.C.E., M.I.M.E., Hydraulic Engineer, was on privilege leave from the 28th August to the 27th November 1916 and on leave without allowances from the 28th November to the 2nd December 1916, during which period Mr. W. A. Niven, A.M.I.C.E., Assistant Engineer, acted for him.

13. Mr. W. E. Waite, Chief Accountant, was on combined leave from the 18th July to the 31st October 1916, during which period Mr. David Robertson, Deputy Accountant, acted for him and Mr. Harischandra Ramchandra, Assistant Accountant, acted as Deputy Accountant.

14. Mr. T. C. Greenop, Chief Officer, Fire Brigade, was on leave (on deputation to Kashmir) from the 19th January to the 15th February 1917, during which period Mr. H. Lainton, Head Foreman, was in charge of the Brigade.

15. Mr. P. P. Vagh, Superintendent of Licenses, was on privilege leave from the 22nd May to the 2nd July 1916, during which period Mr. H. Wald, Assistant Assessor, acted for him.

16. Mr. C. D. Mahaluxmivalla, Superintendent, Municipal Gardens, was granted combined leave from the 1st May 1916 to the 15th April 1918, and Mr. Jamshed M. Doctor, C.M.Z.S., Assistant Superintendent, Zoological Collection, acted for him.

17. Mr. A. G. Christiansen, M.S.E., A.M.I.M.E., Storekeeper, died on the 15th July 1916. Mr. K. N. Ranina, Assistant Storekeeper, acted as Storekeeper from the 16th July to the 8th December 1916. Mr. E. J. Hale, Chief Inspector, Drainage, was appointed Storekeeper from the 9th December 1916.

18. The following officers continued in their respective appointments throughout the year :—

Mr. James W. Mackison, B.Sc., M.Inst.C.E., Executive Engineer.

„ N. Maughan, M.I.C.E., M.R.S.I., Deputy Executive Engineer, Drainage.

„ B. H. Hewett, A.M.I.C.E., Deputy Executive Engineer, Mechanical Branch.

Khan Bahadur B. D. Banaji, Assessor and Collector.

Mr. R. P. Masani, M.A., Municipal Secretary.

„ R. N. Coyaji, Revenue and Refund Audit Officer.

„ L. W. Michael, Superintendent of Markets.

„ Cecil L. Burns, Curator and Secretary, Victoria and Albert Museum.

„ D. G. Padhye, M.A., Secretary, Schools Committee.

Rao Saheb B. Rama Rao, Assistant to Commissioner and Superintendent of Printing and Stationery.

III.—Financial.

I.—GENERAL.

19. The Revenue realized during the year amounted to Rs. 1,40,48,739, and the expenditure to Rs. 1,42,14,292, there being thus a deficit of Rs. 1,65,553. The year opened with a working cash balance of Rs. 67,59,339, including Rs. 3,54,171, being the value of stores in hand, and closed with a balance of Rs. 65,93,786, of which Rs. 8,69,495 represent renewals for 1916-1917 and previous years, Rs. 5,35,267, the value of stores in hand, Rs. 1,00,000, the minimum cash balance required by law, and Rs. 10,98,113, the contribution payable to the City Improvement Trust in the year 1917-18. The surplus cash balance thus amounted to Rs. 39,90,911. When, however, sums already advanced for the purchase of land or for loan works and depreciation on Government paper are deducted, the real surplus as is shown in para. 37 of the Chief Accountant's report, does not exceed 24 lakhs.

II.—INCOME.

20. The rates of taxation were the same as in the preceding year. The income was, however, Rs. 2,17,669 more than in 1915-16, the chief increases being under water tax Rs. 1,48,813, interest on surplus, &c., funds Rs. 74,953, halalkhore tax Rs. 57,050, wheel tax Rs. 42,642, and tobacco duty Rs. 48,233. These increases were partly counterbalanced by decreases under general tax Rs. 15,409, miscellaneous receipts Rs. 54,341, and town duties Rs. 1,48,762. The reasons for the variations have been explained by the Chief Accountant in para. 19 of his report.

21. With the increase of income there was a corresponding increase in the incidence of taxation per head. This was Rs. 12-9-8 in the previous year and Rs. 12-11-11 in the year of report.

22. As compared with the revised estimates, there was an increase in the income of the year of Rs. 2,44,739, the reasons for which have been explained in para. 18 of the Chief Accountant's report.

III.—EXPENDITURE.

23. The total expenditure for the year was Rs. 1,42,14,292, or Rs. 14,10,422 more than in the preceding year. Out of this increase Rs. 4,18,447 represent abnormal and non-recurring charges. The remainder includes increases under "Public Works" over 2 lakhs, (about $1\frac{1}{2}$ lakhs being on roads and lighting), "Health Department" nearly $1\frac{1}{2}$ lakhs, "Education" nearly half a lakh, and "Debt" over $4\frac{3}{4}$ lakhs. The details will be found in paras. 32 and 33 of the Chief Accountant's report. The Chief Accountant estimates the annual recurring permanent increase in expenditure at Rs. 8,60,000 (para. 34 of his report), against a permanent increase in income of Rs. 5,00,000 (para. 20).

24. Out of the total sanctioned grants, aggregating Rs. 1,52,86,047, a balance of Rs. 10,71,755 remained unexpended at the close of the year. Of this, Rs. 8,69,495 have been renewed for expenditure in 1917-18, leaving a saving of Rs. 2,02,260. These savings in expenditure and renewals of grants have been dealt with in paras. 27 to 31 of the Chief Accountant's report.

25. The additional grants sanctioned during the year aggregated Rs. 6,99,302, against Rs. 2,49,607 in the preceding year, the increase of Rs. 4,49,695 being mainly due to the special grants of Rs. 2,98,135 and Rs. 1,20,312 made for the creation of the new Lands and Buildings Fund, and for the payment of discount on the conversion of 3 per cent. and $3\frac{1}{2}$ per cent. Government Paper into the 4 per cent. Conversion Loan of 1916-17, respectively.

IV.—LOAN WORKS EXPENDITURE.

26. The total outlay on Loan Works amounted to Rs. 12,90,759 against Rs. 28,56,540 in the preceding year, showing a decrease of Rs. 15,65,781 due to the curtailment of capital expenditure on account of and owing to difficulties arising out of the war. As compared with the revised estimates the actual expenditure does not show large variations, except under B—Roads and Over-bridges, *vide* para. 44 of the Chief Accountant's report.

V.—PLAGUE EXPENDITURE.

27. The expenditure on plague operations amounted to Rs. 1,29,957 against Rs. 1,22,912 in the preceding year. From the first outbreak of plague up to the close of the year under report the total outlay aggregates Rs. 82,27,397.

VI.—CAPITAL DEBT.

28. No loans were raised during the year, but there was a reduction of Rs. 1,63,780 on account of repayment of the Vehar Debt and the Drainage Loan of 1878. The Capital Debt of the Corporation was thus reduced from Rs. 7,44,00,775 at the beginning of the year to Rs. 7,42,36,995 at its close. Against this the total Sinking Fund invested upto 31st March 1917 amounted to Rs. 1,80,81,730 leaving a net debt liability of Rs. 5,61,55,265.

The action taken by the Chief Accountant with my approval to meet the situation created by the heavy fall in the market value of the securities belonging to the Sinking Fund is explained in para. 43 of his report.

VII.—ASSETS AND LIABILITIES.

29. This year the Chief Accountant has shown the Revenue and Capital Assets and Liabilities of the Municipality separately. They compared as under with the previous year :—

	At the close of 1915-16.	At the close of 1916-17.			Increase.
		Revenue.	Capital.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.
Assets ...	11,29,09,121	91,07,842	10,65,38,143	11,56,45,985	27,36,864
Liabilities ...	7,94,04,336	44,81,664	7,59,52,284	8,04,33,948	10,29,612
Excess of Assets over Liabilities...	3,35,04,785	46,26,178	3,05,85,859	3,52,12,037	17,07,252

The distribution of the assets is given in paras 49 and 50 of the Chief Accountant's report.

STORES ACCOUNT.

30. The balance of Reserve Stock on 31st March 1917 amounted to Rs. 5,35,267 against Rs. 3,54,171 at the close of the preceding year, thus showing an increase of Rs. 1,81,096. There was a slight reduction in the balance of Surplus and Obsolete Stores.

STREET IMPROVEMENTS.

31. The total liabilities after allowing for time-barred claims on account of set-backs amounted to Rs. 9,90,371 upto the 15th July 1917 against which the sanctioned funds aggregate Rs. 4,67,525. To this has to be added an additional sum of Rs. 25,147 realized by the sale of setforward land and permission granted to build within the regular lines of the streets. There is thus a net excess of Rs. 4,97,699.

MISCELLANEOUS FUNDS.

32. The Municipal Fire and Accident Insurance Fund stood at Rs. 2,34,339 at the close of the year, the Worn-out Water Mains Renewal Fund at Rs. 5,95,120, the Net Premia Fund at Rs. 1,87,681, and the Lands and Buildings Fund at Rs. 3,03,034, (*vide* paras. 53 to 56 of the Chief Accountant's report).

FIRE TAX.

33. The surplus to the credit of the Fire Tax amounted to Rs. 1,07,496 at the close of the year, (*vide* para. 79 of the Chief Accountant's Report).

34. The comparison of the net revenue and net expenditure for 1915-16 and 1916-17 is shown below in accordance with the Standing Committee's Resolution No. 12212, dated 3rd February 1892 :—

Particulars.	1915-16.	1916-17.
	Rs. a. p.	Rs. a. p.
<i>Net Revenue after deducting Refunds, Drawbacks, and charges in respect of Assessment and Collection, and granting of Refunds.</i>		
General Tax	51,13,599 12 7	50,88,329 9 7
Fire Tax	14,681 12 0	12,259 4 10
Wheel Tax and Tolls	5,12,819 9 2	5,54,519 9 5
Town Duties	18,37,710 7 3	16,71,545 0 4
Receipts from Government for Liquor Licenses and Tobacco Duty	4,48,394 3 1	4,96,626 15 7
Water Revenue (net)	Dr. 23,529 12 7	60,542 6 2
Market Receipts	3,87,488 9 6	3,77,475 14 9
Returns from other Property and Miscellaneous	4,68,510 7 9	5,33,009 0 5
Net Receipts ... Rs.	87,59,675 0 9	87,94,307 13 1
Deficit ... ..	.....	1,65,552 12 10
	87,59,675 0 9	89,59,860 9 11
<i>Net Expenditure after deducting Receipts.</i>		
General Superintendence	2,63,356 11 8	2,96,346 0 8
Public Gardens	73,203 8 4	72,552 12 3
Public Works (Engineering Department excluding Water Works)	22,73,686 7 3	25,00,139 13 5
New Works (excluding Water Works)	2,02,190 14 2	1,38,562 11 0
Public Health Department (excluding Markets)	5,48,291 3 2	6,02,420 8 11
Municipal Debt (excluding Water Works)	20,04,815 2 8	24,04,217 6 9
Primary Education	4,62,000 0 0	5,10,000 0 0
Education	81,344 12 3	81,872 12 2
Hospitals	4,37,810 0 0	4,35,960 0 0
Pensions, Gratuities and Compassionate Allowances	73,563 7 4	1,01,575 3 4
Miscellaneous	1,71,880 13 9	1,66,520 8 4
Contribution to the City Improvement Trust	10,17,420 1 8	11,01,288 9 0
Plague Expenses	1,22,911 9 2	1,29,957 8 4
Discount on the Conversion of 3 per cent. and 3½ per cent. Government Paper into 4 per cent. Conversion Loan of 1916-17 ... ..	.....	1,20,312 0 0
Creation of the new Municipal Lands and Buildings Fund ... ..	.....	2,98,134 11 9
Net Expenditure ... Rs.	77,32,474 11 5	89,59,860 9 11
Excess	10,27,200 5 4	.....
Total ... Rs.	87,59,675 0 9	89,59,860 9 11

35. The Revenue, Expenditure and Balances of the last five years have been contrasted in the following table :—

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	1,27,41,589	1,28,76,501	(a) 1,24,13,366	1,38,31,070	1,40,48,739
Expenditure	1,16,81,587	1,20,48,926	1,24,53,191	1,28,03,870	(b) 1,42,14,292
Closing balance (including recoverable advances to Loan Works, Reserve Stock, &c., and excluding Minor Deposits, &c.) ...	50,79,844	58,07,419	57,32,139	67,59,339	65,93,786
Add—Recoverable Revenue outstanding ...	43,679	42,218	48,400	32,000	45,000
	51,23,523	58,49,637	57,80,539	67,91,339	66,38,786
Deduct—Uncompleted Works, &c., and unexpended balances of the grants which were required for payment in the following year ...	10,17,956	10,08,232	10,65,310	9,98,762	8,69,495
Net working Balance available for the requirements of the following year	41,05,567	48,41,405	47,15,229	57,92,577	57,69,291

(a) In this year the Fire Tax was reduced from $\frac{1}{2}$ per cent. to $\frac{3}{4}$ per cent. and the Water Tax from $3\frac{1}{2}$ per cent. to 3 per cent.

(b) Includes Rs. 1,20,312 and Rs. 2,98,135 for Discount on the Conversion of 3 per cent. and $3\frac{1}{2}$ per cent. Government Paper into 4 per cent. Conversion Loan of 1916-17 and for the creation of the Municipal Lands and Buildings Fund respectively.

IV.—Assessment and Collection of Revenue.

36. The total amount collected under all heads exclusive of miscellaneous receipts and toll fees was Rs. 96,59,428-7-1 against Rs. 94,63,610-8-3 in the previous year, showing an increase of Rs. 1,95,817-14-10. The final gross assessment was Rs. 6,54,13,855 against Rs. 6,34,16,191 in the previous year. This was assessed on 63,051 properties against 62,356 properties in the previous year. The assessment for General Tax was Rs. 5,62,07,251 against Rs. 5,45,03,932 for the previous year, giving an increase of Rs. 17,03,319. The number of buildings newly erected, demolished and enlarged was 1,171, 1,075 and 425 respectively. Complaints against assessment were 3,531 against 5,079 in the previous year. The demand for the water rate was Rs. 24,02,733 against Rs. 22,45,408, showing an increase of Rs. 1,57,325.

37. The demand for halalkhor service was Rs. 15,44,035 against Rs. 14,83,237, showing an increase of Rs. 60,798. In all the total demand for property taxes was Rs. 95,07,292-11-10. From this amount a sum of Rs. 82,599 was allowed as one-fifth drawback of the General Tax, the result of 9,167 claims. The outstandings on 31st March 1917 were Rs. 11,290 on account of former years and Rs. 51,203 for the year under report, making a total of Rs. 62,493 against Rs. 40,137 of the previous year.

38. The demand on account of the tax on vehicles and animals was Rs. 2,66,690 against Rs. 2,47,609 in the previous year. Out of the total demand including previous years' arrears of Rs. 2,69,069, Rs. 2,894-9-1 were outstanding at the end of the year. 1,734 motor cars and 317 motor cycles were taxed against 1,346 and 313 respectively in the previous year.

39. Miscellaneous receipts amounted to Rs. 37,603 against Rs. 38,885, while the receipts from the toll rights at the Mahim and Sion Causeways amounted to Rs. 20,767 against Rs. 22,433 in the previous year.

40. There were 13 appeals to the Chief Judge of the Small Causes Court, of which 11 were settled out of Court and withdrawn by the appellants, and in two cases the valuations were reduced by the Court.

REVENUE AUDIT.

41. The books and balances of the ward clerks in the several ward offices were duly examined at the end of each quarter, and the bills were checked in detail after comparison with the head office accounts. The assessment books in the head office were also examined to ascertain that no property liable to taxation had escaped assessment. The Vehicle and Animal Tax Book maintained under Section 186 of the Municipal Act was examined and checked. The revenue from the tax on Public Land Conveyances licensed by the Commissioner of Police under Act VI of 1863 was audited and certificates of issue of licenses supplied by that officer checked with the register kept in the Chief Accountant's office. The revenue receipts and vouchers of the different departments were also checked. The number of claims to one-fifth drawback under Section 158 (2) of the Municipal Act scrutinized aggregated 9,167, of which 5,194 were admitted. The number of complaints against valuation under Section 163 of the Municipal Act heard by the Revenue and Refund Audit Officer was 623. The number of decisions on complaints against amendments under Section 167 of the Act scrutinized amounted to 439. The number of claims sanctioned for refund on account of vacancies under Sections 174 to 179 of the Act and on account of over collection aggregated 1,499, representing Rs. 55,193-8-9.

TOWN DUTIES.

42. The total collection for the year amounted to Rs. 38,85,305-10-9 against Rs. 36,60,101-2-10 for the previous year, while the amount refunded was Rs. 20,44,046-7-0 against Rs. 16,93,443-3-0, the net revenue being thus Rs. 18,41,259-3-9 against Rs. 19,66,657-15-10, showing a decrease of Rs. 1,25,398-12-1. The decrease was mainly under grain and flour, sugar and ghee, of which commodities there were very heavy exports for military purposes. The number of refund claims was 58,212 against 59,941 in the previous year.

V.—Public Works.

DRAINAGE.

43. The engines and pumps in No. 2 (new) pumping station at Love Grove worked satisfactorily during the year. In the early part of the year, while sewage was being pumped through the old high level outfall, there were a few breakages in the machinery. As in the previous year it has not been possible to obtain from the manufacturers in England parts to replace all the broken parts. Temporary repairs have been effected. The sewage was again diverted into the completed portion of the new low level outfall from 6th June, 1916, and during the monsoon a short diversion was laid from the sea end of the left hand barrel at an angle to the permanent work to permit of the discharge of sewage to the sea without interfering with the work of the outfall. It is hoped that before, or early in the next cold season it will be possible to place the diversion further out to sea. It is most undesirable again to revert to the use of the old outfall, owing to the heavy strain to which the pumps would be subjected owing to the higher lift.

Between 8th June and 31st October 1916, the pumps in No. 2 Station were assisted by the old Worthington pumps in No. 1 Station for an aggregate working period of 949 hours and 25 minutes. In consequence of heavy rainfall on two occasions it was found necessary to have six engines

in the new and old stations worked together for a period aggregating 6 hours and 55 minutes. Owing to the conditions brought about by the war no further progress was made with the scheme for providing additional pumping plant to deal with the increased water supply consequent on the duplication of the Tansa main.

44. The Love Grove low-level sewage outfall works were continued during the year, the length of outfall constructed being 400 feet. The total length of the twin-barrel steel pipe section constructed up-to-date is 525 feet, carrying the outfall to a distance of 1,567 feet from the engine house. A new machine to take the place of the lost walking gantry arrived from England in October last and was brought into operation in January 1917. Since then it has been possible to make good progress with the work. In addition to the outfall actually laid, pipes sufficient for an extension of 275 feet have been built and concrete blocks sufficient to carry the work forward by 600 feet have been made.

45. The machinery at the Love Grove Air Compressor Station and the several Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill and Mazagaon Districts worked fairly satisfactorily during the year and the total quantity of sewage lifted by the ejectors was about 2,026 million gallons against 1,773½ million gallons in the previous year. At the time of maximum flow the Fergusson Road and Parel District Ejectors have been found to be of insufficient capacity to deal with the sewage without a surcharge. Provision has therefore been made for the construction of a storm-water drain in Curry Road. This has been designed to carry off much of the surface water which at present finds its way into the sewers and thence to the ejector at the junction of DeLisle Road and Fergusson Road. When the drainage of the north of the Island is completed, the districts now drained by the ejectors at DeLisle Road, Elphinstone Road and Arthur Road will drain direct into the new system, and a very considerable improvement will then result in the drainage of these districts. The replacement of the worn 8" steel sealed sewage main in Warden Road between the Mahaluxmi-Battery and Pedder Road with a cast iron main was completed during the year, and the renewal of the worn 15" cast iron sealed sewage main in Fergusson Road was taken in hand.

46. The machinery of the Colaba Air Compressor Station and the five Ejector Stations served therefrom worked satisfactorily during the year. The complaints previously received of a surcharge during the monsoon in the sewers of No. 4 District were obviated by the laying of a 12" storm-water overflow from the sewer into the sea near Pilot Bunder. The total quantity of sewage lifted during the year amounted to about 618 million gallons, showing an increase of 90½ million gallons on the previous year.

47. Owing to the war it has not been possible to make any progress with the schemes for the diversion of the storm-water channel from Love Grove to Worli and the provision of pumps at Worli for the disposal of the storm-water. The oil engine and pump at the Worli sluice gates prevented much of the flooding of the low-lying areas adjacent to the low level channel.

48. The second section of the additional ovoid sewer required on account of the increased water supply was completed during the year. This section was laid from Clerk Road to the junction of Lamington Road and Gilder Lane. This together with the first section, viz., that from the Love Grove Pumping Station to Clerk Road, worked very satisfactorily during the year. The third section of the sewer was taken in hand during the year and has since been completed. The total certified expenditure on the three sections up to the end of the year amounted to Rs. 7,66,065. Mr. Midgley Taylor's further report on the sewerage of the north of the Island with special reference to the type of the power to be adopted at the pumping station is still under consideration. The construction of the main sewers has been deferred owing to the financial conditions due to the war.

49. Smaller drainage works amounting to about Rs. 62,280 were carried out during the year. The total number of improved concrete covers for water entrances provided up to the close of the year was 1,603. 255 house drainage street connections and 185 storm-water connections were made during the year.

REGULATION OF STREETS AND BUILDINGS.

50. The number of applications for permission either to build or rebuild houses, &c., aggregated 3,286, against 3,461 in the previous year. 2,107 notices were issued against house owners under various sections of the Municipal Act. In 602 cases prosecutions were instituted in the Magistrates' Courts against house owners for not complying with the notices served on them against 674 in the previous year. Out of these 602 cases the parties in 180 cases complied with municipal requirements before the service of process, and the cases against them were therefore withdrawn. In 141 cases the parties were warned and discharged, in 172 cases they were convicted and fined, and 109 cases were pending at the close of the year. 376 notices were issued for the removal of unsafe and dangerous or ruinous buildings. 319 of these were complied with; in one case the structure was removed by the Municipality, and 56 cases were pending at the close of the year. 25 buildings or parts of buildings fell during the year. In 18 cases no injury was done and in the remaining 7 cases 17 persons were injured and 7 killed. Action was taken for the removal of 166 inflammable and insanitary huts. Of these 126 were removed, 9 were allowed to remain, and 31 cases were pending at the close of the year. Thirteen cases had to be submitted to the Standing Committee for the removal of unauthorized work. Twenty-one notices were issued under section 378 of the Municipal Act for the improvement of insanitary buildings. In 10 cases the requirements were complied with and the remaining 11 cases were pending at the close of the year.

ROADS.

51. The area of roads metalled (full metalling and full patching) during the year was 6,560,292 square feet as against 5,551,431 in the previous year. The cost was Rs. 3,17,673, the rate for full metalling working out to 10.98 pies per square foot, which is less than the standard rate of Rs. 5-12-0 per 100 square feet but more than last year's rate, *viz.*, Rs. 5-10-7 per 100 square feet. The increased cost was due to improvement of the camber of various roads and the provision of water tables in certain streets.

52. The road repair work was much retarded during the first eight months of the year by scarcity of labour and cartage and the deficient and unsatisfactory supply of material. The demand for labour and the high wages paid by contractors and others renders the securing of adequate and efficient labour for municipal work at present rates, increasingly difficult. Out of 169 miles of roads 26 miles were disturbed in connection with water pipes, drains, gas and electric supply mains, the operations of the Bombay Electric Supply and Tramways Co., Ltd., the Bombay Gas Co., the Telephone Co., and the Tata Hydro Electric Co., being responsible for about 16½ miles. The tarring operations were continued during the year and the area so treated was 232,687 square yards. An area of 22,767 square yards was also grouted with tar and the total cost of the tarring operations amounted to Rs. 74,229. Much more tarring will have to be done in future, when sufficient tar can be obtained. The experiment with Jamba teak wood block pavement tried on a portion of Frere Road having proved successful, it is proposed to treat a further portion of the road similarly in 1917-18. The Bomanji Petit Road was widened during the year, and considerable advance was made in the widening of the Mahim Bazar Road (now called Cadell Road) and Mahim Bazar Cross Road. All the vacant land lying within the set-back lines of Nesbit Road and Worli Road from the Post Office to the storm-water channel has been acquired. In all, land measuring 4,365 square yards estimated to cost Rs. 1,80,244 was added to the streets. The actual sum expended for set-backs during the year

amounted to Rs. 2,18,872. The extension of Lady Hardinge Road eastward upto the G. I. P. Railway level crossing at Matunga was completed during the year. Eight streets were taken over by the Municipality during the year and declared public. Action under section 305 of the Municipal Act was taken in respect of 10 private streets. Portions of 7 roads were provided with hand-set rubble bottoming. The portion of Frere Road from Carnac Bridge to Ahmedabad Street was taken in hand for cement concrete bottoming. 334 new trees were planted during the year. Portions of foot-paths along 11 roads were paved and foot-paths were formed along a large number of roads. There were no extensions of tram lines during the year. Small portions of the tracks at Foras Road and Bellasis Road junction and at Byculla Bridge were renewed, and a length of about 400 feet of single line in a portion of Charni Road was converted into a double track. The number of tram cars running in the City, classified according to the different types approved by the Corporation, with the total carrying capacity of each car during the year was as under :—

- 50 bogie cars each carrying 52 persons sitting and in addition 8 standing during rush hours.
- 50 bogie cars each carrying 20 persons standing and 44 persons sitting.
- 49 single truck cars each carrying 32 passengers.
- 1 single truck car carrying 40 persons sitting.
- 30 trains each carrying 70 passengers.
- 10 trains each carrying 78 passengers.

OVERBRIDGES.

53. As no funds have yet been sanctioned by the Railway Board for the Clerk Road Overbridge over the B. B. & C. I. Railway, its construction has been deferred. Some of the land required for the DeLisle Road Overbridge has been acquired, and negotiations are proceeding with the owners of the rest of the properties. Government have also been requested to acquire properties in two cases. Detailed plans for the Dadar Overbridge are being prepared by the Railway Company.

PUBLIC LIGHTING.

54. The total number of gas lamps at the end of the year was 6,523, 270 more, and of kerosine oil lamps was 1,189, 155 lamps less than in the previous year. The total cost of gas lighting amounted to Rs. 4,36,692, and the net cost of kerosine oil street lighting to Rs. 32,806-14-10, which gives a rate of Rs. 27-10-10 per lamp per annum as against a rate of Rs. 22-3-10 last year. The difference was due to the higher cost of oil. The lighting in large areas of the city is unsatisfactory, but little can be done to improve it until after the war.

MUNICIPAL WORKSHOPS.

55. The Municipal Workshops were fully employed during the year in the repair of plant and machinery used by the different departments and in the manufacture of new articles, and made an estimated net profit of Rs. 8,640-15-8 on the year's working. The bills preferred to the various departments amounted to Rs. 2,43,057-13-8. The work of the third and final section of the new workshops at Foras Road was taken in hand during the year and was in progress at the close of the year. The removal of the machine tools, plant and workmen from the old workshops at Palton Road to the new premises at Foras Road was almost completed during the year.

56. The motor cars provided for the use of the Engineering and Health Departments were in use, running 26,690 miles at a cost of 5.53 annas per mile, against 5.19 annas in the previous year.

WORKS IN CONNECTION WITH PLAGUE MEASURES.

57. The sanitary, water and lighting arrangements at Health Camps erected by private parties and by the Municipality were, as in former years, provided at municipal expense.

58. The details of the several municipal buildings and works constructed during the year under the supervision of the Executive Engineer are given in the report of the Public Works Department.

WATER WORKS.

59. *Tansa Lake.*—The rainfall was 113.75 inches against 92.08 inches in 1915, or 22 per cent. above the average of the preceding 5 years. The lake began to overflow on the 2nd August when the rainfall amounted to 49.79 inches and continued to overflow until the 6th October. The total quantity of water which passed over the waste water weir was 43,000 million gallons. The quantity of water delivered into the duct at the lake was 14,461 million gallons, of which 12,938 million gallons were received into the city, the balance, 1,523 million gallons, having been partly discharged into the Vehar Lake and partly lost by evaporation, overflow from syphon heads and leakage along the duct.

60. *Vehar Lake.*—The rainfall was 99.38 inches against 91.60 inches in 1915 and was 18 per cent. above the average of the previous 5 years. The lake did not overflow during the year. The highest level attained was 255.50 feet above T.H.D., or 9 feet below the waste water weir, and 25 feet above the lowest outlet. The total quantity of water received in the city from the Vehar Lake was 3,951 million gallons, giving an average of 11 million gallons per day.

61. *Tulsi Lake.*—The rainfall was 92.35 inches against 85.46 in the previous year and was $3\frac{1}{2}$ per cent. above the average for the preceding five years. The lake began to overflow on the 21st September and continued to overflow until the 30th September. The total quantity of water received in the city was 1,260 million gallons or an average of 3.5 million gallons per day.

At the end of the year a special investigation of the water supply was being made by Lt.-Col. W. W. Clemesha, I.M.S., Sanitary Commissioner with the Government of India.

62. 3,410 feet of new mains were laid during the year.

LAKES, RESERVOIRS AND FILTERS.

63. No new works of any importance were carried out during the year, but the following minor works were in progress :—

1. Rendering the Malabar Hill Reservoir mosquito-proof.
2. Alterations to the old outlets of the Bhandarwada Filters Nos. 1 to 6 and repairs to filter No. 6.
3. Extensive repairs to the Tansa duct in the Salsette and Kasheli Divisions.

64. There were 52 bursts during the year against 68 in the previous year, 64 in 1914-15 and 49 in 1913-14. Forty of these bursts were on the small 3, 4, and 6 inch mains, 3 on the 7 inch mains, 1 each on the 8, 9 and 32 inch mains and 3 each on the 12 and 36 inch mains. The number of new connections made was 460, while 264 connections were cut off for various reasons (of which, however, 76 were restored), the total number of connections standing at the close of the year was 25,542. The number of cases in which the sanction of the Standing Committee was obtained for disconnections aggregated 353. Out of these disconnections were enforced in 264 cases. 76 of these were restored on compliance with municipal requirements and 188 remained unrestored.

WATER WORKS, WASTE PREVENTION BRANCH.

65. 11,274 underground and 25,628 above ground defects were detected and remedied. The total length of mains of all sizes examined during the year was 114 miles and 3,955 feet.

GENERAL STORES DEPARTMENT.

66. The following figures show the value of stores purchased and issued during the year, including transfers and the balance in hand at the commencement of the year :—

Particulars.	General Stores.	Surplus and Obsolete Stores.	Line Suspense Account.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Value of stores in hand on 1st April 1916... ..	2,42,517 2 10	8,945 13 8	86,519 14 6
Value of stores purchased or added, including transfers during 1916-17	9,05,189 8 5	545 0 0	4,349 6 0
Total value Rs. ...	11,47,706 11 3	4,490 13 8	90,869 4 6
Less—			
Value of stores issued, including transfers ...	7,16,992 2 10	1,308 5 8	1,694 3 6
Balance Rs. ...	4,30,714 8 5	3,182 8 0	89,175 1 0
Less—			
Discrepancies adjusted as per clause 29 of the Stores and Stores Audit Manual against rate adjustment account	16 9 3	.....	.....
Balance in hand on the 31st March 1917	4,30,697 15 2	3,182 8 0	89,175 1 0

67. During the year 115 contracts for the supply of general and special stores were entered into by the Stores Department. Although the market was very unsettled throughout the year owing to the war, no serious difficulty was experienced in obtaining general stores from the annual contractors. There was, however, considerable difficulty in obtaining special stores which had to be imported from England.

68. On account of the demands of Government on the Rolling Stock for Military purposes, the Railway Companies temporarily suspended the booking of goods for the public. This caused some delay in the supply of Katni Cement for which Messrs. C. Macdonald & Co. had contracted.

69. The stores were verified during the year as in previous years and the verification resulted in a net excess of Rs. 551-3-10.

70. The revision of the vocabulary of stores was completed during the year and it is now in the press.

71. The surplus and obsolete stores on hand at the end of the year showed a decrease of Rs. 763-5-8 over the last year's balance. This was due to a further utilization of articles by the Drainage and Water Works Departments. The increase of Rs. 2,655-2-6 in the value of stores in charge of the different Inspectors of the Water Works Department is due to the excess of 50" steel pipes found by the Assistant Storekeeper during his verification of the stores on the lines.

72. The question of the collection of the general stores on a new central site to which the Pipe Dépôt would be removed is still under consideration.

FIRE BRIGADE.

73. The Fire Brigade was maintained in a state of thorough efficiency throughout the year.

74. There were 251 calls to fires of which 35 were false alarms and in several cases more than one call was received for the same fire. The total number of fires was 182. The estimated damage during the year was Rs. 5,57,837 against Rs. 6,36,503 during 1915-16.

75. There were only four serious fires during the year in which property worth Rs. 50,000 and upwards was destroyed.

76. No lives were lost actually at the fires, but a child aged 12 months received injuries to which it afterwards succumbed. Several other persons received injuries but recovered.

77. The fire alarm system worked very satisfactorily during the year and 53 per cent. of the calls were received through the alarms. The number of fire alarms in working order during the year was 73.

78. The Brigade attended on 11 occasions at fallen buildings; 8 persons lost their lives by being overwhelmed with debris and 13 received slight injuries.

79. The water supply at the fires was very satisfactory. The constant supply has considerably facilitated the work of the Brigade.

80. The Chief Officer's report contains a brief history of the Fire Brigade in Bombay.

PUBLIC GARDENS.

81. The number of public gardens maintained by the Gardens Department during the year was ten. In the Bhatia Baug garden (now named the "Victoria Square") turf was laid and the centre group of palms has been planted. The provision of a permanent railing and a fountain has been postponed owing to the conditions arising out of the war. The statue of the late Sir Dinshaw Manekji Petit was erected in this garden during the year. This is one of the four statues for which positions have been reserved in the garden.

82. *Victoria Gardens.*—The number of visitors to the Victoria Gardens during the year was 1,582,500 against 1,544,708 in the previous year. The difficulty of securing a sufficient number of labourers for the garden continued to be felt during the year. The Superintendent reports that although the water supply to the gardens has improved since the duplication of the Tansa Main the pressure is not sufficient. All the roads in the gardens were repaired and kept in order and a few additional roads were tarred. The work of extending the surface drainage of the gardens was also continued during the year.

83. There were 11 band performances at the Victoria Gardens against 12 in the previous year and 43 and 11 at the Esplanade and Chowpati Bandstands respectively against 36 and 12 in the previous year. As in previous years Their Excellencies Lord and Lady Willingdon were pleased to offer their band to play once a fortnight from February to April at the Municipal Bandstands and this band gave two performances at the Victoria Gardens and two at the Esplanade Bandstand.

84. The Elephant and Camel rides at the Victoria Gardens continued to be patronized as usual. A few additions were made to the Zoological collection. There was a slight recrudescence of tuberculosis amongst the animals and the necessary sanitary precautions were immediately taken. Major Liston, C.I.E., and his staff continued to give their valuable help and advice in the checking of the spread of disease amongst the animals in the gardens.

85. The conversion of the Falkland Road and Northbrook Gardens into play-grounds for children was taken in hand during the year.

Victoria and Albert Museum.

86. The Museum was open to the public during 313 days of the year. The total number of visitors was 762,144 against 745,216 during 1915-16, giving a daily average attendance of 2,442 against a daily average of 2,373 for the previous year.

87. In the Natural History Section the rearrangement of the sea shells was completed during the year, and a case containing specimens of the marine fauna found in the neighbourhood of the Island of Bombay was added. A further addition was also made of rare birds and animals stuffed at the Museum. A small number of photographs has been added to the Old Bombay Room, the most interesting of these being seven photographs of the Governors of Bombay taken from life size paintings belonging to Government House, Poona. A descriptive catalogue of the room is now in hand. In addition to pictorial postcards and other pictures illustrating various phases of the present war a large model has been constructed illustrating a battle. This is greatly appreciated by the visitors. A few interesting books were added to the Museum Library.

VI.—Public Health.

88. The general health of the city during the year, though not so good as that of the previous year, which had recorded the lowest mortality since 1874, was on the whole satisfactory. The deaths during the year were 6,893 more than in 1915, the diseases which contributed to this increase being plague and small-pox, which were prevalent in an epidemic form, and measles, fevers and diseases of the nervous and respiratory systems, as also diarrhoeal diseases and debility. The infant mortality also showed an increase of 1,613 over the previous year.

89. The total mortality for the year, exclusive of still-births, was 30,574 against 23,681 for the previous year. This gives a death-rate of 31.21 per thousand of the population. This ratio must however be considered to be higher than the real death-rate in view of the natural growth of population since the last census and the number of troops who have passed through the City. The number of deaths recorded from plague during 1916 was 1,947 and that from small-pox was 1,921. Tuberculosis was responsible for 1902 deaths. The rate of infant mortality on the number of births was 387.86 per 1,000 as against 329 in 1915.

90. The number of births registered during the year was 21,180, being 1,128 more than in 1915 and 929 more than the decennial average. The birth-rate per 1,000 of the population therefore works out to 21.62. During recent years much has been done to reduce infant mortality among the poorer classes. The municipal nurses and the Health visitors of the Sanitary Association and the Lady Willingdon Scheme, who are all qualified midwives, daily visit the localities and chawls inhabited by the poor and diffuse elementary knowledge of the principles of health and hygiene. They advise mothers in the prevention of disease and the care and upbringing of infant. They also try to induce prospective mothers to go to the Maternity Homes and also attend on women in their homes. In addition to the Municipal Maternity Home at Bellasis Road, two new Homes have been provided by the Lady Willingdon Scheme, one at Parel and the other at Victoria Bunder, Colaba. An offer of five lakhs of rupees for establishing additional Maternity Homes for the poor is also before a Committee of the Corporation. The municipal nurses attended 1,354 confinements. Relief to poor women during confinement in the shape of necessaries and comforts such as milk, loaves, beds, blankets, charpoys, linen, &c., was dispensed in 382 cases. 376 women were admitted during the year in the Municipal Maternity Home and of these 352 were confined. In the Parel and Colaba Homes the number of women confined was 139 and 30 respectively.

91. The usual sanitary measures were adopted to control the epidemic diseases and the work of vaccination was satisfactorily performed during the year. When small-pox assumed an epidemic form, increased facilities for vaccination and re-vaccination were offered to the public by opening temporary vaccination stations and making arrangements for vaccination at houses. The Health Officer's report contains an account of the steps that are being taken to check the spread of tuberculosis.

92. The Municipal dispensaries continued to administer free medical relief to the sick poor of the City.

93. Operations against malaria were continued during the year, the number of wells, infected with malarial mosquitoes, filled in and covered over, being 68 and 114 respectively. The spleen rate of the City was 4.09 against 2.74 in 1915, 6.75 in 1914 and 5.87 in 1913.

94. The administration of the Infectious Diseases Hospitals under Dr. Choksey was as usual satisfactory.

95. A report from the Municipal Analyst showing the analytical work done in the Municipal Laboratory is attached to the Health Officer's report.

96. The Health Officer's report (page 42) shows that the amount of catchra, etc., to be dealt with by the conservancy staff increased very greatly during the year. On the other hand there was an appreciable reduction in the amount of night-soil removed by halalkhors owing to an increase in the number of water-closets and better supervision over the labour staff.

LICENSES.

97. The total amount collected on account of license fees aggregated Rs. 1,13,858 against Rs. 1,13,521 during the preceding year.

98. During the year the storage of gunny bags and methylated spirit (over 10 gallons) was made licensable by Act VI of 1916, and the storage of cotton in pressed bales or boras or loose in quantities exceeding four hundred weights in or upon any building intended for or used as a dwelling or within fifteen feet of such building was brought under control by the amendment of Section 394 of the Municipal Act. Revised draft by-laws in regard to horse and bullock stables are now under the consideration of the Corporation.

99. The total number of prosecutions during the year was 4,266 against 4,632 in the preceding year. Out of these there were convictions in 1,454 cases, in 1,207 of which fines were inflicted and in 247 cases the parties were warned and discharged. 2,739 cases were withdrawn. The fines inflicted during the year amounted to Rs. 19,714 against Rs. 18,454 in the preceding year.

MARKETS.

100. The total revenue from Markets and Slaughter Houses amounted to Rs. 6,22,859-2-6 against Rs. 5,88,813-8-6 in the previous year, showing an increase of Rs. 34,045-10-0. The increases were as under :—

Stall rents and squatters' fees collected departmentally	Rs.	3,705	1	6
Squatters' fees from fish markets, scale fees, fair ground rent and feeding fees at the Bandra Slaughter Houses	„	13,548	6	0
Slaughter fees, butchers' license fees, &c.	„	16,470	2	0
Revenue from other sources	„	322	0	6
Total	Rs.	34,045	10	0

The increase in the stall rents and squatters' fees collected departmentally shows that in spite of the war trade in the markets continued to be as usual. The number of stalls vacant is still large in the Colaba, Fort and Erskine Road Markets owing to want of real demand in the former two markets and severe competition in the neighbourhood of the latter. There was a large increase in the fair ground rent and feeding fees owing to keen competition amongst the bidders for this right, as it was anticipated that the importation of animals to Bandra would be considerably larger to meet the requirements of the Supply and Transport Department, the War Hospitals and shipping. The increase in the slaughter fees was due to a considerably large number of animals slaughtered during the year to meet the demands from the military authorities.

101. The number of bullocks, cows and calves slaughtered was 64,846 against 53,229 in the previous year. The number of sheep and goats killed was 751,655 against 645,275 in the previous year. The number of buffaloes slaughtered was 7,565 against 8,371 in the previous year.

102. The percentage of horned cattle rejected on account of unfitness at Bandra was 1.05 per cent. against 1.07 per cent. in the previous year, while that of sheep was about 2.82 per cent. against 2.99 per cent. in the previous year. Sixteen buffaloes were rejected. The inspection work was satisfactory.

103. The fines inflicted by the Presidency Magistrates amounted to Rs. 1,597-8-0 against Rs. 1,258-6-0 in the previous year and were mostly on account of meat improperly brought into Bombay. The quantity of such meat seized and destroyed was 5,970 lbs. against 3,596 lbs. in the previous year and 3,148 lbs. in 1914-15. The total quantity of unwholesome food destroyed as unfit for human consumption was 410,823½ lbs. against 271,370½ lbs. in the previous year.

104. The supplies of mutton, beef, fish, fruit, vegetables, &c., were plentiful and upto the usual standard.

105. The financial results of the working of the markets during the year showed a return of 8.74 per cent. on the estimated capital expenditure.

106. On account of the financial conditions created by the war, it has not yet been possible to take in hand any of the market extension works sanctioned by the Corporation, or the still more important remodelling of the Bandra Slaughter Houses.

VII.—Education.

107. The number of municipal schools and of the pupils attending them during the year was 195 schools with 23,987 pupils against 183 schools with 21,669 pupils in the previous year.

108. Twelve new schools were opened during the year as under :—

- 3 for Marathi boys.
- 4 „ Marathi girls.
- 1 „ Guzerathi girls.
- 2 „ Urdu boys.
- 1 „ Urdu girls.
- 1 night school for Urdu boys.

The number of free schools for the depressed classes was 16 during the year.

109. The expenditure rose from Rs. 5,02,173 to Rs. 5,68,398. This was due to the opening of new schools, the provision of better quarters for schools, the increase in the number of teachers, the payment of enhanced grants-in-aid to schools and the improved equipment of the schools. The cost per pupil was Rs. 20-9-0 as against Rs. 20-5-0 last year.

110. Efforts to increase the number of trained male and female teachers were continued during the year. Sixty-nine trained teachers were employed during the year. To cope with the increase in the number of pupils, the number of teachers was increased from 803 to 924. Fifty-six stipendiaries were maintained at the Ahmedabad and Poona Training Colleges.

111. Owing to the financial situation created by the war, the further construction of new school buildings out of the Government and Corporation's joint contribution was suspended. During the year under review two large donations offered and accepted by the Corporation in previous years were received. One was the gift of Rs. 25,000 made by Bai Valibai, widow of Seth Vallabdas Vishram Mowji. A Sanskrit school maintained by her was taken over by the Schools Committee. A sum of Rs. 11,000 plus Rs. 860 interest was received as the result of High Court proceedings in fulfilment of a bequest made by the late Mr. Parmanand Raja. The Durgadevi Marathi boys' school is now named after him. The funds of both these donations have been invested as Trust funds in the Schools Committee's hands. An offer has been made by the Hon'ble Sir Ibrahim Rahimtoola, Kt., to bear the cost of a building to accommodate a municipal dispensary and a school.

112. The number of schools to which aid was given was 140 with 15,623 pupils. The total grant paid to aided schools was Rs. 65,208 against Rs. 58,781 in the previous year.

113. At an interview between the Schools Committee, the Director of Public Instruction and three representatives of the Millowners' Association which took place during the year, an arrangement was arrived at that the Schools Committee should open schools at places selected by the Millowners and that the latter should undertake by offering special inducements to encourage factory children to attend these schools.

114. The medical inspection of all school children having been sanctioned by the Corporation for a further period of 3 years, the examination was commenced from March 1917.

MUNICIPAL SERVANTS' ACT.

115. No circumstances arose in any department of the Municipality in which it was necessary to put into operation the provisions of the Municipal Servants' Act.

P. W. MONIE,

Municipal Commissioner

for the City of Bombay.

CHIEF ACCOUNTANT'S REPORT.

FOR 1915-16.

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FINANCIAL.

Report of Mr. W. E. Waite, Chief Accountant, for the financial year 1916-1917 as forwarded with his No. S/159 of 6th August 1917.

I have the honour to offer the following remarks on the financial transactions of this Municipality for the year 1916-1917:—

GENERAL RESULTS.

2. The taxes levied during the year were the same as for the year 1915-16, but the income was Rs. 1,40,48,739 against Rs. 1,38,31,070 in the preceding year, showing an increase of Rs. 2,17,669. The expenditure of the year aggregated Rs. 1,42,14,292, showing the very substantial advance on the previous year of Rs. 14,10,422. The net result of the year's working is a deficit of Rs. 1,65,553 against a surplus of Rs. 10,27,200, during the year 1915-16.

3. The actuals of Income and Expenditure compare as follows with the original Budgetted figures:—

	Budget Estimates. Rs.	Actuals. Rs.	Difference. Rs.
Income	1,31,75,000	1,40,48,739	+ 8,73,739
Expenditure	1,38,29,228	1,42,14,292	+ 3,85,064

As compared with the Revised Estimates the results are as follows:—

	Revised Estimates. Rs.	Actuals. Rs.	Difference. Rs.
Income	1,38,04,000	1,40,48,739	+ 2,44,739
Expenditure	1,43,93,000	1,42,14,292	— 1,78,708

As compared with the original estimates, it will be seen that the actuals were on the right side by only Rs. 4,88,675 in a gross estimate of Income and Expenditure of Rs. 2,70,04,228 and that on the revised estimates of Income and Expenditure of Rs. 2,81,97,000, the difference in favour of the Corporation was only Rs. 4,23,447 or a variation on the gross estimate of only 1½ per cent., a sufficient indication, I think, that every effort is made to forecast financial results with care.

4. Including recoverable advances made to the extent of Rs. 5,82,711 for administrative purposes, and Rs. 9,98,761 reserved for the renewal of lapsed grants for 1915-1916 and previous years, the year opened with a working cash balance of Rs. 67,59,339. Owing to the deficit for the year it closed with a balance of Rs. 65,93,786 of which Rs. 8,69,495 represents the renewal of lapsed grants for 1916-1917, and previous years, Rs. 1,00,000, the minimum cash balance required by law and Rs. 10,98,113, the amount of contribution payable to the City Improvement Trust on the 1st May 1917.

5. The sums standing at the debit of "Reserve Stores Stock" at the 31st March 1917 (including Surplus and Obsolete Stores of the value of Rs. 3,183) aggregated Rs. 5,35,267 as compared with Rs. 3,54,171 (including Surplus and Obsolete Stores of the value of Rs. 4,581) at the beginning of the year. There was thus a very large increase of Rs. 1,81,096 in the reserve stocks held. Whether this is justified will be reported on as early as possible.

6. The sums made available for expenditure during the year, in addition to the original Budget Grants, aggregated Rs. 16,98,063 of which Rs. 6,99,302 represents additional grants and Rs. 9,98,761 renewed grants. The grants requiring renewal in 1917-1918 aggregate Rs. 8,69,495 as compared with Rs. 9,98,761 renewed in 1916-1917, or a reduction of Rs. 1,29,266. The reduction would have been greater this year but for the difficulty of obtaining goods from England, for which contracts were entered into in and prior to 1916-1917.

7. At 31st March 1917, the Surplus Cash Balance stood at Rs. 39,90,911, thus:—

Surplus Revenue Fund as per Appendix No. 3...	...	Rs. 46,26,178
Deduct—		
(1) Minimum required by law	Rs. 1,00,000	
(2) Reserve Stock not held in cash	„ 5,35,267	
		Rs. 6,35,267
Net Surplus Cash Balance at 31st March 1917		Rs. 39,90,911

I shall deal with the question of the liabilities outstanding against this balance in my remarks in the body of my report on Surplus Cash Balance.

8. The incidence of taxation per head calculated on the basis of the Census for 1911 Incidence of Taxation. during each of the five years ending with 31st March 1917 works out as follows :—

Year.	Amount.		
	Rs.	a.	p.
1912-1913	11	8	5
1913-1914	11	10	5
1914-1915	10	14	8
1915-1916	12	9	8
1916-1917	12	11	11

9. The outstandings of rates and taxes at the close of the year 1916-1917 stood at Rs. 65,569 against Rs. 42,454 in the previous year, showing an increase of Rs. 23,115 as follows :—

Outstandings at		General Tax.	Water Tax.	Halalkhore Tax.	Wheel Tax.	Meter Tax.	Total.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
31st March 1916	...	23,412	10,137	6,588	2,272	45	42,454
Do. 1917	...	40,922	8,482	13,088	2,895	182	65,569
		17,510 Increase	—1,655 Decrease	6,500 Increase	623 Increase	137 Increase	23,115 Increase

Comparison with (a) Income for 1915-1916. 10. As compared with 1915-1916, the receipts for the year show an increase of Rs. 2,17,669.

The variations were principally under the following heads :—

							Rs.
<i>Increases—</i>							
Wheel Tax and Tolls	...	...	...	...	...	...	42,642
Halalkhore Tax	...	...	...	...	...	...	57,050
Water Tax	...	...	...	...	...	...	1,48,813
Tobacco Duties	...	...	...	...	...	...	48,233
Market Receipts	...	...	...	...	...	...	25,600
Miscellaneous Fines and Penalties	...	...	...	...	...	...	18,591
Sale Proceeds of unserviceable tools and plant... ..	...	...	...	...	...	...	11,554
Interest and Profit on the Investments of Surplus Loan and other balances	...	...	...	...	...	...	74,953
<i>Decreases—</i>							
General Tax	...	...	...	...	...	...	15,408
Town Duties	...	...	...	...	...	...	1,48,762
Miscellaneous Receipts	...	...	...	...	...	...	54,341

Comparison with (b) Expenditure for 1915-1916. 11. As compared with the preceding year, the expenditure for the year shows an increase of Rs. 14,10,422.

The variations are as under :—

							Rs.
General Superintendence	...	...	...	...	...	...	+ 19,354
Assessment and Collection Department	...	...	...	...	...	...	+ 41,759
Public Works	...	...	...	...	...	...	+ 2,02,181
New Works	...	...	...	...	...	...	— 53,594
Public Health Department	...	...	...	...	...	...	+ 1,47,491
Primary Education	...	...	...	...	...	...	+ 48,000
Miscellaneous	...	...	...	...	...	...	+ 24,802
Contribution to the City Improvement Trust	...	...	...	...	...	...	+ 83,868
Debt	...	...	...	...	...	...	+ 4,76,283
Discount on the Conversion of 3 per cent. and 3½ per cent. Government Paper into the 4 per cent. Conversion Loan of 1916-17	...	...	...	...	...	...	+ 1,20,312
Transfer of the sale proceeds of Municipal land realized in 1915-16 to the new Lands and Buildings Fund	...	...	...	...	...	...	+ 2,98,135

12. The Capital debt of the Corporation at 31st March 1916 stood at Rs. 7,44,00,775. Debt and Sinking Fund. During the year no loan was raised while the amount paid towards the reduction of debt was Rs. 1,63,781, so that the balance payable at 31st March 1917, was Rs. 7,42,36,994.

Against this debt, the Sinking Fund invested up to the close of March 1916, amounted to Rs. 1,65,04,880. To this were added, during the year, Rs. 9,38,689 on account of annual Sinking Fund Instalments and Rs. 6,38,160 on account of interest on the invested funds bringing the total Sinking Fund Investments at 31st March 1917 to Rs. 1,80,81,729.

Allowing for the Sinking Fund of Rs. 1,80,81,729 against the outstanding debt of Rs. 7,42,36,994, the net debt liability is reduced to Rs. 5,61,55,265.

13. The subjoined statement shows that the wealth liable to taxation has grown faster than the indebtedness of the Corporation and that judged by the limit of double the rateable value allowed under Section 109 (b) of the Municipal Act, the reserve of borrowing powers left to the Corporation is still considerable.

Year.	Rateable value of properties.	Municipal debt.	The ratio of the rateable value of properties in the City as it stood on the 31st March of each year to the aggregate amount of debt as at the same time.
	Rs.	Rs.	
1902-03	2,87,13,672	4,71,55,760	1:1.642
1903-04	3,10,16,244	4,74,20,356	1:1.529
1904-05	3,18,86,460	4,86,12,762	1:1.524
1905-06	3,43,83,811	4,97,15,015	1:1.445
1906-07	3,73,16,953	4,96,06,066	1:1.329
1907-08	3,98,64,747	5,07,82,403	1:1.273
1908-09	4,22,01,034	5,20,22,939	1:1.232
1909-10	4,45,13,209	5,49,08,205	1:1.233
1910-11	4,68,59,058	5,62,88,147	1:1.201
1911-12	4,82,55,536	5,91,60,747	1:1.225
1912-13	4,96,64,843	5,90,41,916	1:1.189
1913-14	5,21,62,819	6,48,83,677	1:1.244
1914-15	5,38,67,232	6,88,44,972	1:1.278
1915-16	5,70,83,884	7,44,00,775	1:1.303
1916-17	5,88,81,972	7,42,36,994	1:1.260

14. The original Budget Estimates amounted to Rs. 25,70,050. In the Revised Estimate, this was reduced to Rs. 21,87,949. The total expenditure incurred during the year amounted to Rs. 12,90,759. During the previous year against a Budget Estimate of Rs. 47,20,425 and a Revised Estimate of Rs. 37,80,718, the actuals amounted to Rs. 28,56,540.

15. The expenditure on Plague operations amounted to Rs. 1,29,957 during the year against a Budget provision of Rs. 1,34,000, subsequently altered by transfers, additional grants, etc., to Rs. 1,48,830, the actual expenditure during 1915-16 was Rs. 1,22,912. Of the unexpended balance of Rs. 18,873 out of the grant of Rs. 1,48,830, Rs. 12,128 has been renewed for expenditure in 1917-18 and Rs. 6,745 has lapsed as a saving.

The total expenditure for Plague purposes, from the commencement of Plague operations in 1896-97 to the close of the year, aggregated Rs. 82,27,397.

INCOME.

Comparison between
Budget Estimates and
Actuals.

16. A detailed comparison between the Budget Estimates and the Actuals will be found in Appendix No. 1.

17. The income exceeded the original estimates by Rs. 8,73,739. The main factors contributing to this advance were (a) General Tax to the extent of Rs. 97,342 due to enhancement in the rateable value of properties and the erection of new buildings, (b) "Town Duties" to the extent of Rs. 2,70,335 owing to heavy imports of grain and timber, (c) Water Tax to the extent of Rs. 1,57,834 owing to the revenue being underestimated, (d) Tobacco Duty Rs. 62,627 owing very probably to heavier imports consequent on military operations (e) "Interest and Profit on the Investment of Surplus and Loan Balances" Rs. 1,51,097 due principally to curtailed expenditure on Loan Works.

There were also minor increases in "Wheel Tax and Tolls" Rs. 26,416 and "Licenses" Rs. 11,072 due to underestimates which were thought advisable owing to war conditions. There was an increase in "Halalkhore Tax" of Rs. 25,637 following the increase in the General Tax and Rs. 26,752 in "Miscellaneous Fines and Penalties" due to increased prosecutions. "Market Receipts" show an advance of Rs. 11,354, Sale proceeds of Unserviceable Tools and Plant an increase of Rs. 5,508 and Miscellaneous Receipts an increase of Rs. 23,725 due partly to rents realized on lands and buildings acquired in connection with set-backs and partly to increased sundry receipts.

18. In the Revised Estimates the total Income was advanced from the original estimate of Rs. 1,31,75,000 to Rs. 1,38,04,000, but the actuals were slightly better, viz., by Rs. 2,44,739, the most important variations being :—

	Rs.
Town Duties +	95,335
Tobacco Duty Licenses +	22,877
Water Tax +	43,234
Interest on Surplus Funds Investments +	41,097

The reasons for the variations in the Revised Estimates are much the same as those given for increases over the original estimates.

COMPARISON BETWEEN THE ACTUALS FOR 1915-1916 and 1916-1917.

19. As already stated, though the taxes were levied at the same rate as in the preceding year, the Income for the year exceeded that of the previous year by Rs. 2,17,669. There were marked variations, the increases under the different heads amounting to Rs. 4,45,162 and the decreases to Rs. 2,27,492.

The reasons for increases under Halalkhore Tax (Rs. 57,050), Water Tax (Rs. 1,48,813), Tobacco Duty (Rs. 48,233), Fines and Penalties (Rs. 18,591), and Interest on Surplus Balances (Rs. 74,953) have been explained in para. 17.

The increase under Wheel Tax (Rs. 42,642), was made up of Rs. 16,880 under labour carts, (Rs. 4,517) under Hack Victorias, Rs. 3,740 under Motor Cars and Rs. 17,000 under privately owned vehicles, &c., all indicating general trade activity in the City. The increases under Market Receipts (Rs. 25,600) represents increased earnings of Rs. 15,000 under Slaughter Fees due to heavy requirements by the Military Authorities, and minor increases under Stall Rents, Squatters Fees, etc. The increases under other heads being small call for no remarks.

The decreases are under General Tax (Rs. 15,409), Town Duties (Rs. 1,48,762), and Miscellaneous Receipts (Rs. 54,341). The first is due to large arrear payments made by Government and the Port Trust in the preceding year. The decrease under Town Duties is due to heavier refunds on export of dutiable goods from the City following upon the very heavy increase of Rs. 10,86,767 in these duties in 1915-16, a circumstance the possibility of which was indicated in para. 18 of my report for that year. The decrease under "Miscellaneous Receipts" arises partly from smaller receipts on account of sales of set-forward lands and rents of buildings acquired in connection with the improvement of communications, and partly from the recovery in 1915-16 of fees from the Military Authorities for special Halalkhore Service rendered to troops passing through Bombay and of compensation for the old Night Soil depôt at Chandanwadi acquired by the Improvement Trust.

20. Excluding the income from Town Duties as being of a variable nature, the principal source which contributed to the expansion of our revenue was the property taxes, and I think I may safely put the permanent annual addition to the resources of the Municipality on these accounts at Rs. 4,10,000 as brought out in the subjoined statement :—

1915-1916.		1916-1917.		Grand Total.	
Amount.	Total.	Amount.	Total.	Rs. a. p.	Rs. a. p.
1. General Tax (including Fire Tax) at 9% per cent.—	Rs. a. p.	1. General Tax (including Fire Tax) at 9% per cent.—	Rs. a. p.	Rs. a. p.	Rs. a. p.
Total collections booked	54,37,750 12 8	Total collections booked	54,22,842 3 9		
<i>Less—</i>					
Arrear recoveries	1,78,202 0 10	<i>Add—</i>			
	52,59,548 11 10	Excess of refund over recoveries for previous years	1,115 14 10		
<i>Add—</i>			54,23,458 2 7		
Outstandings for the year at the close of the year	19,477 14 2	<i>Add—</i>			
	52,79,026 10 0	Outstandings for the year at the close of the year	32,892 0 2		54,56,360 2 9
2. Water Tax and Miscellaneous Water Works Revenue at 3 per cent. on rateable value—		2. Water Tax and Miscellaneous Water Works Revenue at 3 per cent. on rateable value—			
Total collections booked	23,23,021 1 3	Total collections booked	24,71,834 4 2		
<i>Less—</i>		<i>Less—</i>			
Recoveries for previous years	5,445 0 11	Recoveries for previous years	58 14 7		
	23,17,576 0 4		24,71,893 2 9		
<i>Add—</i>		<i>Add—</i>			
Outstandings for the year at the close of the year	9,827 2 4	Outstandings for the year at the close of the year	7,391 9 5		24,79,284 13 2
3. Halalkhore Tax at 3 per cent.—		3. Halalkhore Tax at 3 per cent.—			
Total collections booked	14,68,686 13 7	Total collections booked	15,25,636 13 11		
<i>Add—</i>		<i>Add—</i>			
Excess of refund over recoveries for previous years... ..	1,969 15 5	Excess of refund over recoveries for previous years	3,613 4 8		
	14,70,556 13 0		15,29,250 2 7		
<i>Add—</i>		<i>Add—</i>			
Outstandings for the year at the close of the year	5,999 2 7	Outstandings for the year at the close of the year	10,919 6 8		15,40,169 9 9
					94,75,364 8 2
					94,75,804 8 2
					90,65,886 15 1
					4,69,917 9 1

Deduct—

(1) Net Income from Property Taxes for 1915-16

Less— Increase in Outstanding Balances

Net Increase in 1916-17 over 1915-16

Net Income from Property Taxes for 1916-1917

Rs. 90,82,385 12 3

16,498 13 2

Rs. 94,75,804 8 2

Net Income from Property Taxes for 1916-1917

Deduct—

(1) Net Income from Property Taxes for 1915-16

Less—Increase in Outstanding Balances

Net Increase in 1916-17 over 1915-16 ...

	Rs.
In addition to this increase of	4,10,000
I think we may safely allow for the following further permanent expansion of income, viz.:—	
(1) Wheel Tax and Tolls—say	40,000
(2) Tobacco Duty Licenses—a problematical figure, but let us say	20,000
(3) Market Receipts, say	15,000
(4) Miscellaneous Fines and Penalties, say	15,000
Total ...Rs.	5,00,000

OCTROI DUTIES.

21. As usual the various articles on which duty was levied at the time of import under the provisions of Section 192 (1) of the Municipal Act, the amount levied and refunds allowed thereon under Section 192 (2) on their export, are shown in Appendix No. 15.

The gross collections for the year were estimated at Rs. 35,00,000, the refunds at Rs. 19,00,000 and the net revenue at Rs. 16 lakhs. The actual gross realizations were Rs. 38,85,306 and the refunds paid aggregated Rs. 20,09,582.

The net revenue collected and paid into the Municipal Treasury in the year amounted to Rs. 18,70,335, showing a decrease of Rs. 1,48,762, as compared with the actuals of the previous year, viz., Rs. 20,19,097, the reason for which has been explained in para. 19 above. The net realizations, after deducting the cost of collections, amounted to Rs. 16,53,299 against Rs. 18,37,710 in the previous year.

22. I attach, as usual, Appendix No. 16, showing the net revenue derived from each dutiable article during the ten years ending with 1916-17, Appendix No. 17, showing the actual collections, the refunds admitted, and the net revenue during the five years ending 1916-17, and also Appendix No. 18 showing the gross collections for the year from each dutiable article month by month from each source with the total refunds admitted as compared with the figures of the preceding year.

REVENUE EXPENDITURE.

23. The total Budget grants for the year sanctioned by the Corporation aggregated Rs. 1,38,29,228, to which were added lapsed grants amounting in all to Rs. 9,98,761 and additional grants totalling Rs. 6,99,302. The total amount of expenditure grants sanctioned for the year thus came to Rs. 1,55,27,291, from which savings to the extent of Rs. 2,41,244 were allowed for in the Revised Estimate; reducing the net aggregate amount of the expenditure grants to Rs. 1,52,86,047. The distribution of this amount among the different service heads is shown in Appendix No. 2.

24. During the previous year the additional grants sanctioned amounted to Rs. 2,49,607 against Rs. 6,99,302 sanctioned in the year under review or an increase of Rs. 4,49,695.

Eliminating, however, the special grants of Rs. 2,98,135 for the creation of a new "Lands and Buildings Fund" and of Rs. 1,20,312 for the payment of discount on the conversion of 3 per cent. and 3½ per cent. Government Paper into the 4 per cent. Conversion Loan of 1916-17, the amount of additional grants sanctioned during the year for recurring expenditure is reduced to Rs. 2,80,855, which does not compare unfavourably with the amount sanctioned in the preceding year.

25. The principal items above Rs. 10,000 making up the additional grants of Rs. 2,80,855 are as under:—

	Rs.	a.	p.
(1) Cost of filling in the Mustan and Nawab Tanks	12,366	15	8
(2) Excess over the Budget provision in respect of the contribution for the year 1915-16 paid to the City Improvement Trust under Section 72 of the City of Bombay Improvement Act	46,288	9	0
(3) Maintaining the new 48" C. I. Main from Ghatkeper to Bombay	12,500	0	0
(4) Excesses in Budget Grants for the year 1915-16	39,310	5	0
(5) Additional provision under Street improvements sanctioned out of the sale proceeds of set forward land and out of contributions levied on House-owners on account of enhanced values for works permitted within the regular lines of streets	47,808	15	7
(6) Reconstructing the arch of the main storm-water drain at the Bellasis Bridge	10,000	0	0
(7) Special measures for the prevention and suppression of small-pox, cholera and foot and mouth diseases	10,000	0	0
(8) To supplement the provision of Rs. 27,000 for the purchase of motor wagons	11,000	0	0
(9) Excess in the grant for II Mechanical Branch; D. Maintenance of Air Compressor Station at Love Grove (Shone System), 2. Fuel	10,000	0	0
	Rs. 1,99,274	13	5

26. The transfers made from one budget head to another without in any way affecting the total Budget provision for the year amounted to Rs. 2,85,968.

Comparison between the grants finally sanctioned and actuals.

27. As stated in para. 23 the grants made finally available for expenditure during the year aggregated Rs. 1,52,86,047 (Appendix No. 2). The total expenditure booked amounted to only Rs. 1,42,14,292, leaving an unexpended balance of Rs. 10,71,755. Of this, Rs. 8,69,495 are required to be renewed for expenditure in 1917-18, leaving a saving of Rs. 2,02,260 or 1.40 per cent. on the total sanctioned grants minus renewals, against 2.41 per cent. in the preceding year.

28. The following figures show the percentage of savings to sanctioned grants for the last 5 years making no allowance for renewals:—

Year.	Final sanctioned grants after deducting savings taken credit for in the Revised Estimates.	Unappropriated net savings.	Percentage.
	Rs.	Rs.	
1912-13 ...	1,31,00,589	4,01,046	3.06
1913-14 ...	1,33,19,020	2,61,862	1.96
1914-15 ...	1,36,60,686	1,42,185	1.04
1915-16 ...	1,41,19,265	3,16,634	2.24
1916-17 ...	1,52,86,047	2,02,260	1.32

The savings for 1916-17 includes Rs. 1,03,928 for the purchase of water meters and engineering plant which could not be utilized owing to the impossibility of obtaining goods from Home on account of the war. After making allowance for these special savings, the percentage of unappropriated savings works out to .64 against 1.18 for the preceding year.

29. I subjoin figures showing the results in regard to total savings for each year from 1912-13 to 1916-17.

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
	Rs.	Rs.	Rs.	Rs.	Rs.
Savings as estimated in the Revised Estimates ...	1,19,000	2,38,150	4,33,500	85,600	2,41,244
Further savings accrued in final accounts ...	4,01,046	2,61,862	1,42,185	3,16,634	2,02,260
Total Rs. ...	5,20,046	5,00,012	5,75,685	4,02,234	4,43,504

30. In so far as the gross grants obtained from the Corporation are concerned there is a further distinct improvement this year as the following comparative statement shows:—

	Gross grants sanctioned.	Savings on Revised Estimates.	Expenditure booked against gross grants.	Lapses on gross grants sanctioned.
	Rs.	Rs.	Rs.	Rs.
1912-13 ...	1,32,19,589	1,19,000	1,16,81,587	15,38,002
1913-14 ...	1,35,57,170	2,38,150	1,20,48,926	15,08,244
1914-15 ...	1,40,94,185	4,33,500	1,24,53,191	16,40,994
1915-16 ...	1,42,04,865	85,600	1,28,03,870	14,00,995
1916-17 ...	1,55,27,291	2,41,244	1,42,14,292	13,12,999

Notwithstanding an increase in 1916-17 of 17.5 per cent. in "Gross Grants sanctioned" over 1912-13, the percentage of lapses on "Gross Grants sanctioned" shows the most satisfactory decrease of 14.6 per cent.

31. The following statement gives the percentage of lapsed grants to total grants sanctioned under the more important heads and departments:—

Percentage of renewals to total sanctioned grants.	Departments and Service heads.	Total Renewals.
		Rs.
2·8	General Superintendence	10,087
1·6	Assessment and Collection Department	8,063
19·04	Fire Brigade	46,249
17·8	Public Gardens	21,153
7·3	Public Works	2,47,079
3·69	Public Health Department	1,04,076
52·4	New Works	1,93,632
4·8	Debt	2,21,012

Comparison between the actual expenditure during 1915-16 and 1916-17.

32. The Revenue Expenditure of the year under report as compared with the preceding year shows increases aggregating Rs. 15,44,373 under certain heads and decreases aggregating Rs. 1,33,951 under others, leaving the net increase at the unprecedented figure of Rs. 14,10,422.

Eliminating even the extraordinary and non-recurring expenditure of Rs. 2,98,135 incurred on the creation of a "Lands and Buildings Fund" and a payment of Rs. 1,20,312 for the conversion of 3 and $3\frac{1}{2}$ per cent. Government Paper into 4 per cent. Government Paper, the increase still stands at the high figure of Rs. 9,91,975.

33. The variations are dealt with in the succeeding paras.

A.—*General Superintendence*.—The net increase of Rs. 19,354 was due to a revision of salaries and increases granted to the Printing Contractors on account of increase in the cost of paper.

B.—*Assessment and Collection Department*.—The increase of Rs. 41,759 was due to heavier commission paid to the G. I. P. Railway owing to increased Town Duty Collections and to the revision of the Establishment Schedules.

C. *Public Works (Engineer's) Department*.—The increase of Rs. 11,234 under C. Maintenance of Love Grove Pumping Station and Rs. 19,982 under D. Maintenance of Air Compressor Station at Love Grove were mainly due to an increase in the price of fuel.

The large net increase of Rs. 1,52,826 in the Streets and Buildings Branch is arrived at as follows:—

	Increase. Rs.	Decrease. Rs.	Reasons.
A. Inspection and Supervision ...	42,737	.....	Due (1) to the transfer of the steam roller, &c., staff previously debited to Road Repairs to this head, (2) to the revision of the Schedule of the clerical staff and (3) to the purchase of steel cabinets costing Rs. 8,146 for the Head Office for filing plans.
B. Public Lighting	49,687	.....	Due to an increase in the number of gas lamps and to contingent expenditure relating thereto.
C. Road Watering	15,576	.....	Due to more frequent watering and an increased number of hydrants fixed during the year.
CI. Oiling and Tarring Roads ...	.....	26,961	Due to difficulty in obtaining tar.
D. Maintenance of Roads and Foot-paths	50,912	.....	Due to higher wages and rates of materials, to special work in connection with improving the foundations of roads, and to a large number of road side trees being planted. These more than counterbalanced decreases under paving foot paths, purchase of tools and plant, and laying out a garden on the Eastern slope of Malabar Hill.
E. Street Improvements	20,810	.....	More set-back claims were required to be paid counterbalancing the decrease occurring under metalling of portions of ground added to roads.

D.—*New Works*.—A decrease of Rs. 53,594 due to a smaller number of works being executed during the year and partly to the payment of the bills or the adjustment of the accounts not being effected by the end of the year 1916-17.

E.—*Public Health Department*.—There were increases aggregating Rs. 1,48,783 and decreases amounting to Rs. 1,292 under this head, the net increase being Rs. 1,47,491. The principal variations are explained below :—

I. General Supervision.—There was a total increase of Rs. 7,090 under this head, due to increased establishment and printing charges.

II. Conservancy Branch.—There was a net increase of Rs. 61,636 made up of many items, as under :—

	Increase. Rs.	Decrease. Rs.	
(1) Superintendence ...	4,576	.....	Due to the revision of the schedule of the clerical staff.
(3) Labour—			
(a) Scavengering establishment	4,574	.....	Due to absentees among the labour staff.
(b) Working of steam and petrol wagons	4,502	.....	Due to the higher cost of repairs on account of the increasing age of the motors and the rise in the price of spare parts, &c.
(c) Gully Flushing	13,101	.....	Due to the higher cost of coal, hose and of repairs to engines and hydrants.
(4) Disposal of town sweeping	13,571	.....	Due to (1) covering the refuse deposited in the Clerk Road Reservoir with earth and (2) to the B. B. and C. I. Railway's bill for maintenance of the siding for the second half of 1915-16 having been paid in 1916-1917.
(7) New stock	36,300	.....	Due to the purchase of two new motor refuse wagons.
(8) Rent	4,298	.....	Due to the payment to Government of the arrears of ground rent for the Chembur skinning ground on the renewal of the lease.
(12) Halalkhore Branch—			
(b) Labour ... ..	.....	4,527	Due to a reduction in ordinary and special halalkhores.
(c) Feed of bullocks... ..	.....	4,742	Due to favourable contract rates for fodder.
(f) Purchase of live stock... ..	.....	4,558	Due to a 20 per cent. increase in the number of cesspool carts in G Ward made in 1915-16.

Markets and Slaughter Houses.—There was an increase of Rs. 35,497 due to (1) the revision of the schedule of the clerical staff, (2) heavy cartage charges for the conveyance of the greatly increased quantity of meat required by the Military, (3) the improved lighting of the Fort and Bhuleshwar Markets, and (4) the purchase of (a) a motor lorry for the transport of meat and (b) 24 pairs of bullocks to replace casualties against 12 pairs purchased in the previous year.

Registration of Births and Deaths.—The increase of Rs. 4,325 under this head was principally due (1) to the revision of the schedule of the clerical staff, and (2) to the increase in the price of clothing and printing and of the medicines consumed in the Maternity Home.

Laboratory.—The increase of Rs. 3,893 was due to (1) acting arrangements made during the Analyst's absence on leave and (2) to the purchase of apparatus which was not made in 1915-16.

Supervision of City Milk Supply.—The increase of Rs. 4,018 is due to this charge appearing for the first time this year.

Infectious Diseases.—The increase of Rs. 21,686 was due to heavy expenditure incurred in connection with the cholera epidemic in the monsoon months and to the prevalence of small-pox.

Plague.—There was an increase of Rs. 7,046 due to (1) increase in the inferior staff and in the cost of drugs and diets required for the Maratha Hospital and the extra repairs required thereto and (2) to the increased expenditure on the erection and maintenance of plague camps.

F. Education.—There was an increase of Rs. 48,000 owing to increased contribution to Primary Education and an increase of Rs. 1,070 under "Schools Committee's Establishment" due to increments allowed to the Secretary and his staff.

G. Miscellaneous.—There were increases aggregating Rs. 63,761 and decreases amounting to Rs. 38,959, thus showing a net increase of Rs. 24,802 as under :—

	Increase. Rs.	Decrease. Rs.	
(1) Pensions, &c.	31,413	.....	Due to the retirement of superannuated individuals and to the payment of arrears of pension amounting to Rs. 14,400 to a pensioner.
(2) Discretionary contingencies ...	3,001	.....	
(3) Local allowance ... ..	.....	33,575	Local allowance ceased wherever schedules were revised.
(4) Cost of addresses to the coming and retiring Viceroys ...	4,257	.....	
(5) Increases to staff	15,952	.....	Due to the revision of the schedules.
(6) Increased rates paid to certain contractors for stores supplies made in 1914-15 ...	7,206	.. ..	This was granted owing to heavy increases in prices since the outbreak of War.

H. Contribution to the City Improvement Trust.—An increased contribution of Rs. 83,868 had to be made to the City Improvement Trust during the year on the basis of the actual realizations of General Tax.

I. Municipal Debt.—The increase of Rs. 4,76,283 is due (1) to interest charges for the full year and the Sinking Fund instalments accruing on the 20 lakhs and the 43 lakhs loan and (2) and to the payment of a large portion of the arrears of interest accrued in previous years.

34. On a comparison of the expenditure for the two years 1915-16 and 1916-17, I estimate that the net result of the year's transactions has been to add to our recurring liabilities practically 8½ lakhs per annum, thus :—

	Increase Rs.
(1) General Superintendence	20,000
(2) Assessment and Collection Department	35,000
(3) Public Works (Engineer's) Department—	
(i) Mechanical Branch, say Rs. 7,000	
(ii) Streets and Buildings „ 1,75,000	
(iii) Water Works... .. „ 13,000	1,95,000
(4) Public Health Department	83,000
(5) Education (Contribution to Primary Education and Maintenance of the Schools Committee's Establishment) ...	49,000
(6) Pensions	15,000
(7) Contribution to the City Improvement Trust	83,000
(8) Municipal Debt	4,30,000
Total Rs.	9,00,000

Less—

Reduction in the provision for Local Allowance on account of revision of the schedules	40,000
Net Increase Rs.	8,60,000

I have in para. 20 of the report placed the permanent expansion of our Income during the year at Rs. 5,00,000. I do not claim *absolute* accuracy for this any more than for the permanent increase in expenditure which I estimate at Rs. 8,60,000, but the figures for all practical purposes give a very fair representation of the trend of our income and expenditure, and it will be seen that in the year under review as in the previous year the expenditure has advanced at a very much quicker pace than the income.

SURPLUS CASH BALANCE.

35. The unhyponthecated Surplus Cash Balance (excluding the minimum balance of Rs. 1,00,000 required by law, Rs. 10,98,112-14-3 reserved for payment to the City Improvement Trust on account of contribution from Revenue and Rs. 5,35,266-15-6 being the amount of stores in hand) stood at Rs. 39,90,911-3-2 against Rs. 42,05,117-10-3 at the close of 1915-16, showing a decrease of Rs. 2,14,206-7-1 made up, thus:—

	Rs.	a.	p.
Excess of expenditure over income	1,65,552	12	10
Increase in balance of reserve stock stores... ..	1,81,095	10	0
	Rs. 3,46,648	6	10
<i>Less—</i>			
Decrease in lapsed grants	1,29,266	5	0
Decrease in contribution reserved for payment to the City Improvement Trust	3,175	10	9
	1,32,441	15	9
Net Decrease Rs.	2,14,206	7	1

36. The original estimate of Surplus Cash Balance at the close of the year excluding the minimum balance of Rs. 1 lakh required by law and Rs. 10,55,000 reserved from revenue for payment to the City Improvement Trust was Rs. 23,01,595. The actual Surplus Cash Balance of Rs. 39,90,911-3-2 was thus in advance by Rs. 16,89,316-3-2. It also exceeded the figures of the Revised Estimate of Rs. 36,16,118 (Rs. 48,17,407-0-0—Rs. 11,01,289 plus Rs. 1,00,000) by Rs. 3,74,793, thus:—

	Rs.
(1) Extra income realizations (para. 18) ...	2,44,739
(2) Savings in expenditure (para. 27) ...	2,02,260
(3) Difference in favour of 1916-17 as compared with 1915-16 in the renewed grants actually required in 1915-16 and those provided in the revised estimate for 1916-17 (Rs. 9,98,762—Rs. 8,53,000)	1,45,762
(4) Decrease in amount reserved for payment to the City Improvement Trust ...	3,176
	Rs. 5,95,937
<i>Less—</i>	
Increase in value of reserve stock ...	1,81,096
Increase on amount reserved for additional grants	40,048
	Rs. 2,21,144
Difference Rs.	3,74,793

37. It is necessary to point out that from the Surplus Cash Balance of Rs. 39,90,911 grants have already been made for revenue purposes to the extent of Rs. 1,80,000 in round numbers, and that it is contemplated to augment this figure in the near future by Rs. 2,14,000 for grain compensation to low-paid employes, making a total for revenue purposes as far as we have gone of Rs. 3,94,000.

Assuming, as is indicated by the latest figures, that this extra expenditure will be covered by increased income, I should like to bring to notice that in arriving at the Surplus Cash Balance it will be seen from Appendix No. 5 that we have treated as a recoverable advance the sums of Rs. 2,28,620, Rs. 6,13,580 and Rs. 43,075 spent on advances for lands and for loan works, on the assumption that either cash recoveries or the raising of a loan will regularize matters. Failing such recoveries and loan the total sum of Rs. 8,84,675 will form a first charge on the Surplus Balance of Rs. 39,90,911.

At the date of this report, moreover, part of this Surplus Balance (to the extent of Rs. 22 lakhs in round numbers) is held in depreciated Government Paper on which the write-off will amount to about Rs. 7,00,000.

Thus the real surplus may be put at not more than Rs. 24,00,000 in round numbers, of which 15 lakhs will be in $3\frac{1}{2}\%$ Paper reduced to its market value which at a time like the present it seems advisable to treat as a reserve to be resorted to only in case of emergency.

We have thus a balance of about Rs. 9 lakhs only in cash from which it has to be remembered we have to finance the expenditure on the Mahim Bazaar Road, on the Church Gate Improvement Scheme and the outstanding of about Rs. 5,00,000 unpaid for Street Improvement.

If the reserve of Rs. 15 lakhs is to be kept intact it will be seen that the whole of the Surplus Cash Balance is practically hypothecated.

LOANS RAISED.

Appendix No. 7.

38. The amount of loans raised up to 31st March 1917 as shown in these appendices aggregates Rs. 7,15,00,500. The total amount expended on Loan Works and Plague stood at Rs. 6,92,97,030-5-5 and the invested balance at Rs. 22,03,469-10-7. Of the sum of Rs. 6,92,97,030-5-5, Rs. 6,74,57,363-8-1 represents expenditure on works for which loans have already been sanctioned and raised, and Rs. 18,39,666-13-4 is the total amount of Capital Expenditure incurred by way of advances from Surplus Loan Balances. The amounts so advanced from the balances in hand of each individual loan are shown in column 14 of Appendix No. 7. In addition to this Rs. 6,13,580-9-8 have been spent by way of advances from Surplus Cash Balance on works for which loans have yet to be raised. The particulars of these works are given in Appendix No. 14.

No loan was raised in the year under review. Of the loan of Rs. 40 lakhs arranged in 1915-16 with the Bank of Bombay as stated in para. 47 of my report for that year, the first two instalments of Rs. 2,25,000 and Rs. 3,25,000 were paid off on due date, viz., 30th November 1916 and 28th February 1917, and the remaining nine instalments from the 3rd to the 11th are payable as under :—

3rd instalment	on	30th June 1917	...	...	Rs. 7,25,000
4th	"	"	30th September 1917	...	" 3,75,000
5th	"	"	31st December 1917	...	" 2,75,000
6th	"	"	31st March 1918	...	" 2,75,000
7th	"	"	30th June 1918	...	" 7,50,000
8th	"	"	30th September 1918	...	" 3,75,000
9th	"	"	31st December 1918	...	" 3,00,000
10th	"	"	31st March 1919	...	" 2,75,000
11th	"	"	1st May 1919	...	" 1,00,000

DEBT AND SINKING FUNDS.

Appendices Nos. 9, 10 and 11.

39. The total Capital Debt of the Corporation at the beginning of the year amounted to Rs. 7,44,00,774-15-9 of which Rs. 21,92,274-15-9 represented Debt and Sinking Funds. the Vehar Debt due to Government, and the balance was due to the public. As stated in the preceding para. no loan was raised during the year. The amount paid during the year towards the reduction of the Vehar Debt was Rs. 26,780-8-0 and Rs. 1,37,000 were paid to certain holders of the debentures of the drainage loan of 1878. There was thus a net decrease of Rs. 1,63,780-8-0 in the Capital Debt of the Corporation which stood on 31st March 1917 at Rs. 7,42,36,994-7-9. Of the total debt, Rs. 21,65,494-7-9 represented the amount due to Government. Against the total debt due, the Sinking Fund invested upto 31st March 1917 amounted to Rs. 1,80,81,729-8-1, leaving a net debt liability of Rs. 5,61,55,264-15-8.

40. From Appendix No. 9 it will be observed that 68 debentures of the aggregate value of Rs. 34,000 of the drainage loan of 1878 which were redeemable on 1st January 1906, 1st January 1909, 1st January 1910, 1st January 1912, 1st January 1915, 1st January 1916 and 1st January 1917 were not surrendered for repayment by the holders upto the close of the year.

As due provision for the repayment of these debentures exists under the renewed grants the net outstanding debt liability of the Corporation may be taken at Rs. 5,61,21,264-15-8.

41. Appendix No. 11 shows that the outstanding interest on the different Municipal loans at the beginning of the year amounted to Rs. 2,41,796-14-6, which together with Rs. 31,88,380-5-0 on account of interest payable during the year under report, gave a total liability of Rs. 34,30,177-3-6. Against this, the net interest paid by the Bank of Bombay

during the year under report amounted to Rs. 32,41,299-14-5 against Rs. 28,97,844-7-11 in the preceding year. The outstanding balance at the close of the year under report amounted to Rs. 1,88,877-5-1 against Rs. 2,41,796-14-6 for the preceding year. The outstanding represents 5.5 per cent. of the total interest payable against 7.7 in 1915-16.

42. From Appendix No. 10 it will be seen that allowing for interest due but not collected, the invested balances of the Sinking Funds on 31st March 1917 amounted to Rs. 1,83,32,796-10-1 and were Rs. 11,142-10-1 in excess of what should have accumulated for the purpose for which the funds have been created.

The subjoined statement shows the various kinds of paper with the amounts held in the Sinking Fund at 31st March 1917:—

Name of Sinking Fund.	5 per cent. Municipal Debentures.	4 per cent. Municipal Debentures.	4 per cent. Bombay Port Trust Debentures.	4 per cent. Bombay Improvement Trust Debentures.	4 per cent. Bombay Improvement Trust Sterling Bonds.	4 per cent. Government Paper of the Loan of 1916.	3½ per cent. Government Paper.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
5 per cent. Municipal Loans Sinking Fund ...	36,47,500	30,72,000	2,20,500	9,76,500	£25,000= Rs. 3,75,000	13,500	...
4 per cent. Municipal Loans Sinking Fund 3½ per cent. basis ...	.....	31,75,500	1,32,500	23,54,000	.....	8,46,000	11,76,800
4 per cent. Municipal Loans Sinking Fund 3 per cent. basis ...	.....	8,25,500	1,99,000	1,03,000	...	5,00,000	1,30,000
3½ per cent. Municipal Loans Sinking Fund ...	.....	74,000	.....	41,500	.....	.....	2,21,300
Face Value ...	36,47,500	71,47,000	5,52,000	34,75,000	3,75,000	13,59,500	15,28,100

43. Since the close of the year a re-arrangement of the paper held in the Sinking Fund, the Worn Out Mains and Renewal Fund, the Fire and Accident Assurance Fund, the Net Premia Fund, the Lands and Buildings Fund and our Surplus Cash Investments Fund has resulted in the Sinking Fund holding of 3½ per cent. Government Paper being substituted by 5½ per cent. Government War Bonds.

A scheme has also been evolved whereby no demand will be made for a long series of years on any of the Municipal, Port Trust or C. I. Trust Debentures and the question of depreciation on these bonds does not therefore arise. The 5½ per cent. War Bonds held in the Sinking Fund have been ear-marked for payment of the Plague loan of 20 lakhs which becomes due in the same year as the War Bonds are payable, *viz.*, 1920.

The Net Premia Fund at 31st March stood at Rs. 1,88,700 (Market value Rs. 1,25,000) which is quite enough to meet all contingencies.

EXPENDITURE ON LOAN WORKS.

Appendix No. 8.

44. The total outlay on Loan Works during the year (excluding Plague expenditure which was met from Current Revenue) aggregated Rs. 12,90,759-4-6 against Rs. 28,56,540-0-9 in the preceding year, showing a decrease of Rs. 15,65,780-12-3. The expenditure was distributed as under and as compared with the Revised Estimates does not show large variations except under B. Roads and Overbridges.

	Revised Estimates.			Expenditure.		
	Rs.	a.	p.	Rs.	a.	p.
A. Buildings and Sanitary Structures ...	4,87,747	8	7	4,15,496	1	7
B. Roads and Overbridges ...	8,95,741	8	9	1,84,611	14	11
C. Drainage ...	6,82,020	8	2	5,78,676	3	4
D. Water Works ...	1,05,232	10	9	96,640	2	8
E. Cemeteries ...	11,358	6	8	10,337	0	2
G. Miscellaneous ...	5,848	15	2	4,997	13	10
Total Rs. ...	21,87,949	10	1	12,90,759	4	6

45. The total excess incurred on individual Loan Works over the Revised Estimates amounted to Rs. 8,295-3-1 and the total lapses amounted to Rs. 9,05,485-8-8. The net deficit, therefore, amounted to Rs. 8,97,190-5-7 and the principal works on which lapses occurred were:—

	Rs.	a.	p.
Construction of a New Outfall at Love Grove	54,692	0	0
Construction of various overbridges in the City	3,07,452	0	0
Construction of buildings for Primary Schools	11,719	0	0
Street Improvements in different places	1,53,826	0	0
Construction of New Municipal Workshops at Foras Road...	20,269	0	0
Chawls for the Health Department Bigaries of F Ward ...	10,674	0	0
Construction of Dadar Kumbharwada Road	40,000	0	0
Widening and extending Nesbit Road	1,16,782	0	0
Widening Elphinstone Bridge	35,000	0	0
Construction of a Road running Eastwards from Lady Hard- inge Road to the G. I. P. Railway new Level Crossing at Matunga and providing Storm Water Drain thereat ...	26,319	0	0
Construction of a new straight Road from the junction of Old Parbhadevi Road and the proposed Foras Road to join the widened Mahim Bazaar Road	25,000	0	0
Additions to and enlargement of existing Sewers in con- nection with the duplication of the Tansa Main	37,793	0	0
Total Rs. ...	8,39,526	0	0

46. The original estimates for the year aggregated Rs. 25,70,050 against which the actual expenditure was Rs. 12,90,759. Our loan balance at the close of the year aggregated Rs. 22,03,469 against Rs. 34,94,228 at the beginning of the year.

PLAGUE EXPENDITURE.

47. The charges booked on account of Plague operations during the year, amounted to Rs. 1,29,957 against Rs. 1,22,912 in the preceding year, showing an increase of Rs. 7,045 which occurred principally in the outlay on the maintenance of the Maratha Hospital and Camps.

The total expenditure incurred on Plague from the commencement of operations to the close of the year under report aggregated Rs. 82,27,397 and was financed as under:—

	Rs.
(1) From the 20 Lakhs Plague Loan	20,00,000
(2) From the Government Contribution	14,50,000
(3) Amount recovered from the City Improvement Trust under Section 79 (3) b (i) and (ii) of their Act IV of 1898 and transferred to meet the liability incurred out of Loan Funds	16,00,000
(4) From Current Revenue	31,77,397
Total Rs. ...	82,27,397

LIABILITIES AND ASSETS.

Appendices Nos. 5 & 6.

48. This year, I attach as appendices 5 & 6, a Revenue Account Balance Sheet and a Capital Fund Balance Sheet.

It will be seen that the gross Revenue liabilities of the Corporation stood at Rs. 44,81,664-2-10 the assets being Rs. 91,07,842-5-6. The difference of Rs. 46,26,178-2-8 represents the Surplus Revenue Balances as shown in Appendix No. 3.

49. The following is a summary of the Revenue Assets :—

	Rs.	a.	p.
(1) Cash Balance in Office and Bank Treasuries ...	3,58,736	7	11
(2) Surplus Funds Deposits and Investments ...	55,24,774	14	10
(3) Special Funds Investments	13,20,173	10	0
(4) Contractors' Paper Deposits	3,30,100	0	0
(5) Advances recoverable	10,13,224	1	10
(6) Reserve Stock	5,35,266	15	6
(7) Stores sold but not adjusted	25,566	3	5
Total Rs. ...	91,07,842	5	6

50. The gross Capital liabilities of the Corporation stood at Rs. 7,59,52,283-13-8 at the close of the year under report, and the assets at Rs. 10,65,38,143-3-1, resulting in a surplus of Rs. 3,05,85,859-5-5 the details of which are shown in Appendix No. 6.

The following are the Capital assets of the Corporation :—

	Rs.	a.	p.
(1) Block Account	8,45,37,654	10	6
(2) Debt due by the City Improvement Trust for lands transferred to them	17,15,289	5	11
(3) Sinking Fund Investments	1,80,81,729	8	1
(4) Loan Funds Investments	22,03,469	10	7
Total Rs. ...	10,65,38,143	3	1

INVESTMENTS AND INVESTED BALANCES.

51. In the original Budget Estimates a sum of Rs. 2,00,000 was estimated to be derived from interest on investments of Surplus Loan and other Balances. It was increased to Rs. 3,10,000 in the Revised Estimates. The actual realizations, however, amounted to Rs. 3,51,097 due to additions made to the Surplus balances in consequence of increased income and decreased expenditure on Loan Works.

This income of Rs. 3,51,097 was derived from the following sources :—

	Rs.
(1) On Current Account Deposits at 2 per cent. and $2\frac{1}{2}$ per cent... ..	7,976
(2) On Fixed Deposits	2,68,860
(3) On Investments in Government and other Securities	74,261
Total Rs. ...	3,51,097

52. Inclusive of investments on account of Sinking, Insurance, Worn-out Mains Renewals, Net Premia, and Lands and Buildings Funds, the total sum of investments and reinvestments arranged for by this Department during the year aggregated Rs. 2,77,37,000, thus :—

	Rs.
(1) Current Account Deposits	25,25,000
(2) Fixed Deposits	2,32,50,000
(3) Sinking and Special Funds	31,62,000
Total Rs. ...	2,89,37,000

The average rate of interest on Fixed Deposits was 4.59 per cent. against 4.03 per cent. in the preceding year. The rates realized for Fixed Deposits ranged from 3 per cent. to 7 per cent. The maximum rate realized in the preceding year was $7\frac{1}{4}$ per cent.

SPECIAL FUNDS.

*Appendices Nos. 4 & 5.**Municipal Fire and Accident Insurance Fund.*

53. After meeting the expenditure of Rs. 507-8-4 for repairing the damage caused by fire to the Municipal Cutchra Motor Car No. 90, the fund with investments of the annual instalment of Rs. 10,000 plus the accrued interest on invested balances increased from Rs. 2,16,978-3-2 on 31st March 1916 to Rs. 2,34,338-13-6 at the close of the year thus :—

						Rs.	a.	p.
Held in Paper	...	...	...	...	...	2,24,243	2	0
Held in Cash	...	...	...	...	...	10,095	11	6
The Market value of the paper at 31st March was	...	...	...	...	...	1,52,810.		

Worn-out Water Mains Renewal Fund.

54. The fund including the recoupment of the advance made during 1915-16 to meet the expenditure on the work of laying 6" Mains between Dongri Street and Chinch Bunder Road together with the interest realized from invested balances increased from Rs. 5,69,485-15-5 at the close of the past year to Rs. 5,95,119-11-2 at the close of the year under review thus :—

						Rs.	a.	p.
Held in Paper	...	...	...	...	...	5,94,668	7	0
Held in Cash	...	...	...	...	...	451	4	2
Total Rs.						5,95,119	11	2

The market value of the paper at 31st March was Rs. 3,93,370.

Net Premia Fund.

55. The fund with the interest realized on invested balances and the extra realizations of interest on Sinking Fund investments increased from Rs. 1,34,164-10-7 at the beginning of the year to Rs. 1,87,680-14-5 at the close of the year which was held as follows:—

						Rs.	a.	p.
In Paper	...	...	...	...	...	1,87,580	10	0
In Cash	...	...	...	...	...	100	4	5
Total Rs.						1,87,680	14	5

The market value of the paper was Rs. 1,24,542.

LANDS AND BUILDINGS FUND.

56. The fund was instituted this year as ordered by the Corporation with a view to having in hand a specific fund which could be utilized to replace, as opportunity arose, land which had been sold, causing a reduction in the assets of the Corporation to the immediate advantage of Revenue and the Revenue Surplus Balances. It was started with a grant from Surplus Cash Balance of Rs. 2,98,134-11-9 representing land sales, which with interest realizations during the year was advanced to Rs. 3,03,034-2-11 at its close, which was held in 4 per cent. Government Paper and Rs. 34-2-11 in cash.

The market value of the paper was Rs. 2,57,550.

WATER WORKS ACCOUNT.

*Appendix No. 12.**Income and Expenditure Account.*

57. In the original Budget Estimates, the Water Works income was placed at Rs. 23,14,000 (excluding a hypothetical figure of Rs. 40,000 estimated for interest on invested balances) and the expenditure at Rs. 23,97,600 allowing for a deficit of Rs. 83,600. The actual income (which does not and cannot include anything for interest on invested balances) amounted to Rs. 24,71,834-4-2, showing an increase over the Budget Estimates of Rs. 1,57,834-4-2. The expenditure amounted to Rs. 24,11,291-14-0 or Rs. 13,691-14-0 more than the estimate.

The result of the year's operations was an excess of Income over Expenditure of Rs. 60,542-6-2.

58. As compared with the preceding year, the year under report shows an increase in Income of Rs. 1,48,813-2-11 and in Expenditure of Rs. 64,306-3-5 respectively, the former due to increased assessment of properties and increased consumption of water by trades, Railways and Port Trust, and the latter due to increased interest charges and sinking fund instalments on new loans.

59. As required by Corporation Resolution No. 6570 of 15th February 1912, a detailed statement of income realized for the year under report as compared with the preceding five years is attached to Appendix No. 12.

ASSETS AND LIABILITIES.

Appendix No. 13.

60. The liabilities at the beginning of the year stood at Rs. 3,25,72,779-10-9. They were reduced at the close of the year to Rs. 3,24,95,145-6-9, owing to the payment of Rs. 26,780-8-0 to Government towards the reduction of the Vehar Debt and of Rs. 50,853-12-0 towards the repayment of the Water Works portion of the Drainage Loan of 1878.

The assets aggregated Rs. 4,57,32,791-6-10 against Rs. 4,44,73,892-7-7 at the close of the previous year, showing an increase of Rs. 12,58,898-15-3, which was made up of (1) works executed out of different loans, (2) additions to the Sinking Fund Investments, and (3) the inclusion of works met out of (a) the contribution from the G. I. P. Railway for removing and relaying the 32" Vehar main at Coorla and (b) the premia received on the 147 lakhs Tansa Water Works Loan.

From Appendix No. 13, it will be seen that the excess of assets over liabilities amounted to Rs. 58,31,611-15-2 after providing Rs. 66,04,909-12-6 for the Sinking Fund and Rs. 6,74,843-9-0 for Special Funds.

SUSPENSE ACCOUNT.

A.—Deposits.

61. The Cash Deposits outstanding at the close of the year aggregated Rs. 5,58,887-1-11 against Rs. 6,04,214-6-0 in the year 1915-1916, and were made up of:—

	Rs.	a.	p.
(1) Cash deposits from Contractors	1,92,045	0	3
(2) Cash deposits received through Departmental Officers	1,08,662	1	9
(3) Other cash deposits	1,92,531	15	4
(4) Deposits on account of works performed for private parties	65,648	0	7
	Rs. 5,58,887	1	11

B.—Inter-Departmental Charges.1. *Workshops.*

62. The opening balance was Rs. 47,559-10-7 or Rs. 24,309-0-1 more than in the preceding year.

The cost of labour and supervising staff employed and of stores used on the works turned out in the Shops during the year amounted to Rs. 2,41,231-7-6 against Rs. 2,81,238-5-9 in the previous year. The total outlay in the Workshops during the year, together with the opening balance aggregated Rs. 2,88,791-2-1. The recoveries during the year amounted to Rs. 2,65,142-12-3 and the outstanding at the end of the year including incomplete jobs and value of stores issued in March 1917 aggregated Rs. 32,252-15-4.

The outstandings are made up of the following items:—

	Rs.	a.	p.
Stores issued in March 1917 and charged in the accounts for 1916-1917 under the system of stores accounts	12,931	2	5
Outstanding bills	15,252	2	8
Incomplete jobs	4,069	10	3
	Rs. 32,252	15	4

63. By charging 25 per cent. on all jobs, the sum of Rs. 43,642-3-4 was obtained, adding to which (1) the sum of Rs. 9,030-4-6 realised by the sale of unserviceable stores, coal ashes, and saw-dust and (2) Rs. 1,090-7-0 realised by the hire of plant, &c., the gross earnings of the Shops aggregated Rs. 53,762-14-10, from which the following Shop and Supervision, &c., charges amounting to Rs. 45,158-5-4 had to be met:—

	Rs.	a.	p.
(1) Supervising Establishment, Rent and Contingencies	23,170	5	9
(2) Shop charges	21,987	15	7
	Rs. 45,158	5	4

The net profit of the Workshops was thus Rs. 8,604-9-6.

In arriving at this result no portion of the salary of the Deputy Executive Engineer, Mechanical Branch, no interest and Sinking Fund charges on capital, and no depreciation on buildings and machinery has been allowed for.

Other Works.

64. The outstanding balances on 31st March 1917, in respect of Departmental and Private Works executed by different branches of the Executive Engineer's Department (excluding Workshops) and the Health Department are contrasted below with those on 31st March 1916:—

	Balance on 31st March 1916.	Balance on 31st March 1917.	More.	Less.	REMARKS.
A.—DEPARTMENTAL WORKS.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
(1) Drainage.	1,099 2 4	(a) 1,673 6 4	574 4 0	.....	(a) Out of this, Rs. 200-7-3 represent the value of stores issued in March 1917, and included in the accounts for 1916-17.
(2) Roads and Buildings Branch.	10,534 6 4	3,886 2 6	.....	6,648 3 10	
(3) Water Works Branch.	4,553 15 5	(b) 2,343 1 10	.....	2,210 13 7	(b) Out of this, Rs. 778-2-0 represent the value of stores issued in March 1917, and included in the accounts for 1916-17.
Rs. ...	16,187 8 1	7,902 10 8	574 4 0	8,859 1 5	
B.—PRIVATE WORKS.					
Drainage Branch.					
On account of Ordinary Works.	6,664 8 9	(c) 19,335 14 4	12,671 5 7	.....	(c) Out of this, Rs. 45-14-7 represent the value of stores issued in March 1917, and included in the accounts for 1916-17.
Roads and Buildings Branch.	8,379 14 11	15,600 15 0	7,230 0 1	.....	
Water Works Branch.	5,559 7 10	(d) 4,351 13 10	.....	1,207 10 0	(d) Out of this, Rs. 1,237-12-0 represent the value of stores issued in March 1917, and included in the accounts for 1916-17.
Health Department (Removing Chokes).	1,164 11 6	1,096 5 4	.....	68 6 2	
Total Rs. ...	21,759 11 0	40,385 0 6	19,901 5 8	1,276 0 2	

65. The outstandings in respect of Departmental Works are due to the fact that several bills had to be kept back on account of excesses over grants. These will be adjusted on funds becoming available. The outstandings in respect of Private Works, Roads and Buildings Branch are due to bills against the Bombay Electric Supply and Tramways Company, Limited, and those against the houseowners of private lanes not having been fully recovered before the close of the year. The outstandings in respect of Private Works, Drainage Branch, are due to bills against houseowners whose deposits have not been fully recovered.

Advances to Municipal Officers.

66. The outstandings on 31st March 1917 aggregated Rs. 47,218-9-8 against Rs. 39,032-15-4 on 31st March 1916. Rs. 6,103 represents the sums allotted to the different Heads of Departments as standing advances for contingent expenses, Rs. 4,000 is the sum advanced to meet legal costs in connection with an appeal to the Privy Council by Narma Brothers in regard to the acquisition of land at Elphinstone Road Overbridge, Rs. 15,300 is the sum advanced to meet legal expenses in connection with the appeal lodged in the Privy Council against the G. I. P. Railway, in respect of the Sewri Koliwada Road case, Rs. 5,100 is an advance made to the Hydraulic Engineer to meet the expenditure in connection with the work of Ghatkopar Overbridge. The remaining balance is comprised of small items which call for no remarks.

Advances to Contractors.

67. The outstandings at the close of the year amounted to Rs. 144-12-5 against Rs. 118-9-11 during 1915-16.

Miscellaneous.

68. Out of outstandings of Rs. 2,28,020-8-5, the following are the principal items:—

	Rs.	a.	p.
(1) Acquisition of lands beyond the regular line of the street to be adjusted against the sale proceeds of the lands ...	1,97,544	13	2
(2) Acquisition of land for the new burning ground for Agris and Kolis of the Sewri Section on behalf of Mr. Ismael Haji Cassum ...	10,680	14	5
(3) Arbitration and other expenses in connection with the purchase of the Tramways ...	5,623	14	10
(4) Expenditure in the suit filed by the Tramways Company against the Municipality ...	4,410	5	7
(5) Cost of filling in the Framji Kavasji Tank to be subsequently adjusted against the sale proceeds of reclaimed land.	3,832	6	2
(6) Cost of filling in wells in the City pending payment to be received from Government...	5,000	0	0

69. The amount of Items Nos. 1 and 5 will be adjusted when the land is sold. The land under Item No. 2 has been retained for Municipal use and the adjustment involved will be made during the year 1917-18. The adjustment of Items Nos. 3 and 4 has yet to be effected. The adjustment of Item No. 6 has already been effected during 1917-18.

Advances from Surplus Cash Balance for New Works to be subsequently provided for under New Loans to be raised.

70. The expenditure which amounted to Rs. 6,13,580-9-8 will be found detailed in Appendix No. 14.

Personal Account of the Chief Auditor and Accountant, G. I. P. Railway.

71. A sum of Rs. 43,075 was advanced on account of Municipal share of the cost of widening Elphinstone Bridge and its approaches to suit Sandhurst Road extension. The accounts have now been submitted by the Railway Authorities and the advance will be adjusted in 1917-18.

Reserve Stock.

72. The receipts of General Stores during the year as per my books aggregated Rs. 8,94,801-15-9 and the issues Rs. 7,10,398-0-5, thus resulting in an increase of Rs. 1,84,403-15-4 in the balance of current stores. There was a reduction during the year in the balance of Surplus and Obsolete Stores from Rs. 4,581-7-8 to Rs. 3,182-8-0.

73. During the year 1916-17, the verification of stock was carried on by Mr. K. R. Vacha at the Central Stores, the Bellasis Pipe Depot and the Municipal Workshops and the result which was satisfactory was duly reported to the Corporation.

No outside verification of the stores under Line Suspense Account was done in 1916-17.

The printing of the exhaustive stores vocabulary compiled by Mr. Simkins is in progress.

74. The balances of the general, i.e., current serviceable stores are compared below for the last five years:—

	Rs.	a.	p.
Balance at the close of 1912-13 ...	3,01,553	0	8
Balance at the close of 1913-14 ...	3,01,349	3	6
Balance at the close of 1914-15 ...	2,78,486	2	0
Balance at the close of 1915-16 ...	2,54,806	1	11
Balance at the close of 1916-17 ...	4,39,210	1	3

The question of this heavy increase after a steady decrease from year to year for several years past will be gone into at an early date as stated in para. 5.

75. The balance of Reserve Stock in hand at the close of the year as per the general books of this office amounted to Rs. 5,35,266-15-6 against Rs. 3,54,171-5-6 at the close of the preceding year, showing an increase of Rs. 1,81,095-10-0 as detailed below :—

DEPARTMENTS.	1915-1916.			1916-1917.			Mora.	Less.
	Serviceable Stores.	Surplus and Obsolete Stores.	Total.	Serviceable Stores.	Surplus and Obsolete Stores.	Total.		
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Stores Department.	2,54,806 1 11	4,581 7 8	2,59,387 9 7	(a)4,39,210 1 3	3,182 8 0	4,42,392 9 3	1,88,004 15 8	.....
2. Water Works Imprest ...	3,572 - 9 0	.....	3,572 9 0	3,088 13 3	.....	3,088 13 3	.....	483 11 9
3. Executive Engineer's Department ...	597 12 9	.....	597 12 9	610 8 0	.....	610 8 0	12 11 3	.....
4. Line Suspense Account ...	90,613 6 - 2	.....	90,613 6 2	89,175 1 0	.....	89,175 1 0	.....	1,438 5 2
Total ...	3,49,589 13 10	4,581 7 8	3,54,171 5 6	5,32,084 7 6	3,182 8 0	5,35,266 15 6	1,88,017 10 11	1,922 0 11
Less—Decrease Rs.							1,922 0 11	
Net—Increase Rs.							1,91,095 10 0	

(a) The difference between this amount and that shown by the Storekeeper is Rs. 8,512-2-1 which is due to the non-adjustment of the value of stores issued to the Water Works, Drainage, &c., Departments, on account of grants having been found insufficient and to some minor adjustments which will be made in the accounts for 1917-18.

STREET IMPROVEMENTS.

76. The amounts made available on account of acquisition of set-backs during the year were as under :—

	Rs.	a.	p.
Budget provision from Revenue	1,00,000	0	0
Renewed grant	15,841	4	5
Additional grant made by appropriating towards Street Improvements the sale proceeds of set- forward land and the enhanced values recovered for work permitted within the regular line of the street during 1915-16	47,808	15	7
Budget provision from Capital	2,50,000	0	0
	<u>Rs. 4,13,650</u>	<u>4</u>	<u>0</u>

Against this sum only Rs. 2,18,872-12-1 were actually paid leaving a balance of Rs. 1,94,777-7-11 which has been renewed for expenditure during 1917-18.

77. After allowing for all ascertained time-barred claims, the undischarged commitments up to 15th July 1917 in regard to set-backs already acquired and sanctioned to be acquired amounted to Rs. 9,90,371 against which we have sanctioned funds aggregating Rs. 4,67,525 and a sum of Rs. 25,147 realized by the sale proceeds of set-forward lands and recoveries of "Enhanced values" during 1916-17 which will go to meet set-back payments.

The excess of liabilities over funds available thus amounts at date to Rs. 4,97,699. In the light of past experience, an addition of at least 30 per cent. has to be made to this to provide for increase in rates when the time for payment actually matures.

We have also to remember that further liabilities are being and will be sanctioned during the remainder of the year 1917-18 for set-backs.

GENERAL FINANCIAL POSITION.

78. On the latest budget data our Income and Expenditure and margin of borrowing powers for general purposes except Fire Brigade and Water Works may be stated as follows :—

Income as per Budget of 1917-18	Rs. 1,38,69,000
<i>Deduct—</i>	
Fire Tax	Rs. 2,10,760
Water Tax	„ 24,94,000
	<u>„ 27,04,760</u>
Balance	Rs. 1,11,64,240
<i>Add—</i>	
Difference between General Tax at 9½ per cent. and the maximum at 12 per cent. leviable under the Act	„ 14,05,063
Total Income	Rs. 1,25,69,303(A)
Expenditure as per Budget for 1917-18	„ 1,39,92,330
<i>Deduct—</i>	
<i>Fire Brigade—</i>	
(a) Ordinary expenditure	Rs. 1,75,535
Debt	„ 35,700
	<u>Rs. 2,11,235</u>
(b) <i>Water Works—</i>	
Ordinary expenditure	„ 5,00,176
Debt... ..	„ 18,45,500
	<u>„ 23,45,676</u>
	<u>„ 25,56,911</u>
Net normal expenditure except Fire Brigade and Water Works	Rs. 1,14,35,419(B)
Balance of taxation against which loans can be raised for purposes other than Fire Brigade and Water Works	„ 11,33,884
	<u>or say ... Rs. 11,34,000</u>

Against this balance loans can be raised to the extent of Rs. 1,60,00,000 of a thirty years' currency with interest at 5 per cent. and Sinking Fund at 3 per cent. per annum compound interest. In addition we could, if necessary, raise a very large sum for Water Works limited only by the tax the Corporation would be prepared to levy and for Fire Brigade purposes we could raise a further loan of Rs. 29,61,000 on the same basis.

FIRE BRIGADE.

79. During the year the Fire Tax was levied at $\frac{3}{4}$ per cent. and the actual realizations amounted to Rs. 2,05,910-10-2 being less than in the previous year by Rs. 583-11-3. The Expenditure on the Fire Brigade Department, including the cost of new works amounting to Rs. 1,665-10-4 as also the interest and sinking fund charges on the Fire Brigade Loan and on a portion of the 55 lakhs loan was Rs. 1,92,597-11-10 against Rs. 1,92,455-3-0 including the cost of new works amounting to Rs. 3,820-13-7 in the preceding year. Adding to the last year's surplus of Rs. 1,40,432-15-9 the excess of income over expenditure this year, viz., Rs. 13,312-14-4 the surplus amounts to Rs. 1,53,745-14-1. Deducting from the latter figure, the sum of Rs. 46,249-6-5 to be renewed in 1917-18 on account of outstanding liabilities the actual surplus on 31st March 1917 stands at Rs. 1,07,496-7-8.

TEST AUDIT.

80. The results achieved by test audit during the year were, I consider, very satisfactory. I have been able, in two cases specially, to establish beyond doubt that we were paying for services we were not receiving. The whole question of test audit is before the Commissioner and the Corporation. I beg once more to bring to notice the invaluable work done throughout the year by Mr. R. E. Balsara.

SPECIAL WORK.

81. A reference to the Appendices to my report will show that I have recast the methods of presenting the accounts. This has been possible at the present juncture only owing to the willing and invaluable assistance of my Deputy Mr. D. Robertson.

In addition, with the help of Mr. M. J. Antia and Mr. D. B. Aras I have been able, since my last annual report was written, to complete a revision of the stores manual written by me several years ago, and to make a compendium of the leave, acting and travelling allowance rules applicable to the Municipality.

Personnel.

82. I was on leave from July to November and Mr. D. Robertson, A. C. A., acted for me.

COST OF DEPARTMENT.

83. The cost of my department in 1916-17 and 1897-98, and the percentage of cost to Income and Expenditure are compared below:—

YEARS.	Cost of Staff at maximum rate of pay.	Income.	Expenditure.	Percentage of Cost of Staff to Income.	Percentage of Cost of Staff to Expenditure.
	Rs.	Rs.	Rs.		
1897-98	62,754	(a) 68,98,064	(b) 68,86,527	95	91
1916-17	(c) 1,01,528	1,40,48,739	1,42,14,292	72	71
Increase	38,774 or 61.79 per cent. increase.	74,50,675 or 112.92 per cent. increase.	73,27,765 or 106.41 per cent. increase.	24.21 Decrease.	21.98 Decrease.

(a) Excluding a rebate of Rs. 4,87,055 to current revenue in respect of plague expenses debited to revenue in 1896-97 and Rs. 1,10,442 on account of interest on the investments of Sinking and Special Funds.

(b) Excluding Rs. 5,00,000 on account of plague expenses debited to revenue in 1897-98, which were subsequently transferred to Loan Funds and Rs. 1,10,442 on account of investment of interest realized on Sinking and Special Funds.

(c) Excluding cost of stores establishment transferred to Central Stores and including Rs. 1,531 on account of plague staff employed in this department.

84. The percentage of cost of staff to Income and Expenditure for the year 1915-1916 was 65 and 70 respectively.

85. The following are the Appendices attached to my report :—

- No. 1.—Statement showing the Income realized during 1916-17 compared with the estimate for that year as also with the actuals for the preceding year.
- No. 2.—Statement showing the expenditure during 1916-17 as compared with the final sanctioned grants and the actuals for the preceding year.
- No. 3.—Statement of Surplus Revenue Fund.
- No. 4.—Statement of Special Funds for 1916-17.
- No. 5.—Balance Sheet (Revenue) as at 31st March 1917.
- No. 5A.—Comparison of Face, Purchase and Market Values at 31st March 1917 of the different securities held in the Special Funds.
- No. 6.—Balance Sheet (Capital Funds) as at 31st March 1917.
- No. 6A.—Comparison of Face, Purchase and Market Values at 31st March 1917 of the different securities held in the Sinking Funds.
- No. 7.—Statement showing (1) outstanding Municipal Loans, (2) the expenditure incurred against each of them, (3) the amounts withdrawn temporarily from their unexpended balances to meet the cost of new works, etc., and (4) invested balances of the loans on 31st March 1917.
- No. 8.—Block Account, showing details of Capital Expenditure up to 31st March 1917.
- No. 9.—Statement showing the outstanding Loans due by the Municipality on 31st March 1917.
- No. 10.—Statement showing the amounts which should have accumulated in the Sinking Fund, on the basis of the fixed instalments and the amounts actually invested up to 31st March 1917.
- No. 11.—Statement showing the interest outstanding on different Municipal Loans on 31st March 1917.
- No. 12.—Water Works, Income and Expenditure Account, including statement of income realizations for 1916-17, and preceding five years from water supply through meters.
- No. 13.—Water Works Assets and Liabilities.
- No. 14.—Statement showing the expenditure advanced from Surplus Cash Balance for New Works to be subsequently provided for under a New Loan to be raised hereafter.
- No. 15.—Statement of Town Duties collected and refunds allowed in 1916-17.
- No. 16.—Statement of Net Town Duties collected from 1907-08 to 1916-17.
- No. 17.—Statement of gross Town Duties levied during the five years ending 31st March 1917, refunds allowed and the net income realized during that period.
- No. 18.—Statement showing Town Duty Collection from each source month by month with the refunds admitted for the year 1916-17, as contrasted with those for the year 1915-16.
- No. 19.—Statement showing the expenditure incurred on new works (revenue) as compared with the sanctioned grants and the unexpended balances renewed.
- No. 20.—Statement of Liabilities incurred on Street Improvements and the Rates and Amounts actually paid.
- No. 21.—Statement of Income of the Bombay Municipality from 1865 to the close of the financial year 1916-17.
- No. 22.—Statement of Expenditure of the Bombay Municipality from 1865 to the close of the financial year 1916-17.
- No. 23.—Contrasted statement of Income and Expenditure from the year 1865 to the financial year 1916-17.

I have the honour to be,

Sir,

Your most obedient servant,

W. E. WAITE,

Chief Accountant.

Appendix

I N

STATEMENT showing the net Receipts during the Financial year 1916-17 from all sources as

Actuals for 1915-16.	PARTICULARS.	Details of Actuals.	Actuals for 1916-17.	Budget Estimate for 1916-17.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
	Taxation Proper.			
	GENERAL TAX.			
44,68,434 0 0	General Tax at 9½ per cent. from the Public ...	46,14,070 5 4		
2,77,787 14 4	„ Government of Bombay ...	2,43,454 10 2		
4,90,084 8 11	„ Port Trust ...	3,58,906 10 1	52,16,431 9 7	51,22,800 0 0
52,31,256 7 3				
1,76,185 9 0	Fire Tax at ½ per cent. from the Public ...	1,82,133 3 5		
10,963 5 4	„ Government of Bombay ...	9,610 0 10		
19,345 7 1	„ Port Trust ...	14,167 5 11		
2,06,494 5 5			2,06,910 10 2	2,02,260 0 0
54,37,750 12 8			54,22,342 3 9	53,25,000 0 0
	Wheel Tax and Tolls.			
2,46,380 1 6	Wheel Tax through Assessor and Collector (private conveyances) ...	2,65,464 15 0		
2,49,960 0 0	Wheel Tax through the Chief Accountant (public land conveyances) ...	2,75,184 5 4	5,40,649 4 4	
4,96,340 1 6			20,766 10 8	
22,433 5 4	Tolls. (through contractors) ...	.....	5,61,415 15 0	5,35,000 0 0
5,18,773 6 10				
	Duties, Town—			
27,20,139 5 10	Through Port Trust ...	26,37,104 11 0		
3,52,222 14 9	„ B. B. & C. I. Railway ...	3,15,228 1 4		
5,70,341 12 11	„ G. I. P. Railway ...	9,27,588 11 1		
36,42,704 1 6		38,79,916 7 5		
16,23,607 2 0	Less—Refunds ...	20,09,531 11 0		
20,19,096 15 6			18,70,334 12 5	16,00,000 0 0
	Licenses—			
1,12,720 2 0	(A) Taxes on dangerous and offensive trades (through the License Superintendent) ...	.....	1,12,500 10 0	1,00,000 0 0
	(B) Streets and Buildings (through the Engineer)—			
1,360 0 0	(1) Licenses to Plumbers ...	1,300 0 0		
4,650 0 0	(2) „ to Surveyors ...	4,670 0 0	5,970 0 0	7,000 0 0
6,010 0 0				
	(C) Net receipts on account of Land Conveyance, Music, &c., Licenses (issued by the Commissioner of Police)—			
.....	(1) Public Conveyance ...	.....		
7,160 2 10	(2) Music Licenses ...	8,816 5 6		
1,696 11 5	(3) Motor Car Licenses ...	3,785 12 9	12,602 2 3	13,000 0 0
8,856 14 3				
1,43,750 0 0	Liquor Licenses—Commuted payment from Government ...	.....	1,43,750 0 0	1,43,750 0 0
3,04,644 3 1	Tobacco Duty Licenses. Net receipts from Government (through Commissioner of Customs) ...	.....	3,52,876 15 7	2,90,250 0 0
85,51,602 6 4			84,81,792 11 0	80,14,000 0 0
	Carried over Rs. ...			

No. 1.
C O M E.

contrasted with the Actuals for 1915-16, the Original Budget Estimate and the Revised Estimate.

Revised Estimate for 1916-17.	Compared with the Actuals for 1915-16.		Compared with the Original Estimate.		Compared with the Revised Estimate.	
	Increase.	Decrease.	More.	Less.	More.	Less.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
51,94,937 0 0	.....	14,834 13 8	93,681 9 7	.....	21,494 9 7	.....
2,05,068 0 0	.....	588 11 3	3,710 10 2	.....	847 10 2	.....
54,00,000 0 0	.....	15,408 8 11	97,342 3 9	.....	22,842 3 9	.....
5,62,000 0 0	42,642 8 2	.....	26,415 15 0	.....	.....	584 1 0
17,75,000 0 0	.....	1,48,762 8 1	2,70,334 12 5	.....	95,334 12 5	.....
1,09,000 0 0	.....	219 8 0	12,500 10 0	.....	3,500 10 0	.....
7,000 0 0	.....	40 0 0	.....	1,030 0 0	.....	1,030 0 0
12,650 0 0	3,745 4 0	.....	.....	397 13 9	.....	47 13 9
1,43,750 0 0	.....	.....	.....	.....	.....	.....
3,30,000 0 0	48,232 12 6	.....	62,626 15 7	.....	22,876 15 7	.....
83,39,400 0 0	94,620 8 8	1,64,430 4 0	4,69,220 8 9	1,427 13 9	1,44,054 9 9	1,661 14 9

Appendix

I N

STATEMENT showing the Net Receipts during the Financial year 1916-17 from all sources as

Actuals for 1915-16.	PARTICULARS.	Details of Actuals.	Actuals for 1916-17.	Budget Estimate for 1916-17.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
85,51,602 6 4	Taxation Proper—Total Brought forward ...	.....	84,81,792 11 0	80,14,000 0 0
	Services Rendered.			
13,59,678 15 11	Halalkhore Tax on Value... ..	14,29,202 4 3		
1,08,907 13 8	" for Special Services... ..	96,434 9 8	15,25,636 13 11	15,00,000 0 0
14,68,586 13 7	Water Tax and other Miscellaneous Water Works Revenue :—			
	Water Tax through Assessor and Collector on value. 11,31,137 3 10			
10,73,680 9 7	On Meter Measurement... 12,48,706 11 4			
11,49,853 2 2	Compounded Tax ... 13,442 0 10	23,93,286 0 0		
13,162 2 6				
22,36,635 14 3	Water charges recovered through Water Engineer	25,978 8 10		
17,541 0 7		24,19,264 8 10		
22,54,176 14 10	Rent of water meters	33,891 10 9		
34,541 10 8	Miscellaneous	12,214 13 10		
22,274 6 3	Sale proceeds of and produce of lands	5,759 11 11		
11,291 1 3	Rent of lands and buildings	703 6 10		
736 15 10				
23,23,021 1 3			24,71,834 4 2	23,14,000 0 0
37,91,607 14 10			39,97,471 2 1	38,14,000 0 0
	Returns from Property and Miscellaneous.			
	Market Receipts—			
1,94,257 1 6	Stall rents	1,97,594 14 0		
51,066 0 0	Squatters' fees	54,492 1 8		
	Fair ground and feeding fees from Contractors	85,891 10 8		
81,600 0 0	Miscellaneous	28,797 12 6		
28,786 1 0	Slaughter fees	2,86,400 0 0		
2,21,934 6 0	Rent of lands and buildings	3,168 0 0		
3,168 0 0	Sale-proceeds and produce of lands... ..	9 13 0		
2 8 0				
5,80,754 0 6			6,06,354 3 10	5,95,000 0 0
	Public Gardens. Victoria Gardens.			
5,690 11 0	Sale-proceeds of plants, flowers, &c.	5,861 13 0		
445 4 0	Rent of chawls from males, &c.	422 0 0		
475 10 0	Fees for elephant and camel rides	1,128 8 0		
	Rebate towards the cost of the maintenance of the Museum Garden	600 0 0		
600 0 0	Fees for admittance	1,505 11 6		
931 9 0	Right of selling refreshments	600 0 0		
675 0 0	Sale-proceeds of cast live-stock	95 0 0		
33 0 0				
8,851 2 0			9,713 0 6	10,000 0 0
54,629 14 2	Tramway Rent ... ..	.....	54,617 8 2	55,000 0 0
43,160 11 4	Miscellaneous Fines and Penalties ... ..	.....	61,751 8 10	35,000 0 0
	Returns from Property and Miscellaneous. Carried over...	.....	7,32,436 5 4	6,95,000 0 0
6,87,395 12 0				
85,51,602 6 4	Taxation Proper—Total—Carried over...	.....	84,81,792 11 0	80,14,000 0 0
37,91,607 14 10	Services Rendered—Total—Carried over ...	.....	39,97,471 2 1	38,14,000 0 0

No. 1—continued.**C O M E.**

contrasted with the Actuals for 1915-16, the Original Budget Estimate and the Revised Estimate.

Revised Estimate for 1916-17.	Compared with the Actuals for 1915-16.		Compared with the Original Estimate.		Compared with the Revised Estimate.	
	Increase.	Decrease.	More.	Less.	More.	Less.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
83,39,400 0 0	94,620 8 8	1,64,430 4 0	4,69,220 8 9	1,427 13 9	1,44,054 9 9	1,661 14 9
15,27,000 0 0	57,050 0 4	.....	35,636 13 11	.....	... ..	1,363 2 1
24,28,600 0 0	1,48,813 2 11	.....	1,57,834 4 2	.....	43,234 4 2	.....
39,55,600 0 0	2,05,863 3 3	.....	1,33,471 2 1	.....	43,234 4 2	1,363 2 1
5,98,000 0 0	25,600 3 4	.....	11,354 3 10	.....	8,354 3 10	.....
10,000 0 0	861 14 6	.....	.....	286 15 6	.....	286 15 6
55,000 0 0	.....	12 6 0	.....	382 7 10	.....	382 7 10
48,000 0 0	18,590 13 6	.....	26,751 8 10	.....	13,751 8 10	.....
7,11,000 0 0	45,052 15 4	12 6 0	38,105 12 8	669 7 4	22,105 12 8	669 7 4
83,39,400 0 0	94,620 8 8	1,64,430 4 0	4,69,220 8 9	1,427 13 9	1,44,054 9 9	1,661 14 9
39,55,600 0 0	2,05,863 3 3	.....	1,33,471 2 1	.....	43,234 4 2	1,363 2 1

Appendix

IN

STATEMENT showing the Net Receipts during the Financial year 1916-17 from all sources as

Actuals for 1915-16.	PARTICULARS.	Details of Actuals.	Actuals for 1916-17.	Budget Estimate for 1916-17.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
85,51,602 6 4	Taxation Proper—Total Brought forward ...	.....	84,81,792 11 0	80,14,000 0 0
37,91,607 14 10	Services Rendered—Total Brought forward ...	.....	39,97,471 2 1	38,14,000 0 0
6,87,395 12 0	Returns from Property and Miscellaneous. Brought forward ...	.....	7,32,436 5 4	6,95,000 0 0
	Miscellaneous Receipts :—			
.....	Telephone Rent ... ..	.....		
33,688 15 7	Sale of set forward land	14,682 12 1		
28,500 8 0	Sale of land	41,898 13 7		
1,07,227 6 0	Rent of chawls and ground rents	91,389 7 5		
16,104 0 0	Fees—Kamatipura milch cattle stable	16,107 0 0		
7,538 12 0	Fees—Agripada milch cattle stable	7,402 8 0		
28,022 12 2	Dhobhiwada and Shops	28,175 1 5		
1,047 10 0	Cleveland Bunder Fees	1,126 8 0		
3,860 1 6	Sale of bones, manure, &c.	3,785 12 9		
	Right of catching fish, cutting grass, collect- ing fruits, drawing toddy	34,154 0 0		
23,754 6 0	Concession money for permission to build within the regular line	10,464 0 0		
14,120 0 0	Recoveries from Military Authorities for special halalkhore service rendered to troops passing through Bombay	1,511 9 1		
13,034 15 1	Sale-proceeds of vaccine lymph	8,289 0 0		
10,839 0 0	Compensation paid by the City Improvement Trust for the old night soil depot at Chan- danvadi required by them ... ..	.....		
15,576 15 10	Cleaning drains	5,340 0 7		
13,472 7 1	Miscellaneous	34,898 1 3		
36,278 3 4				
3,53,066 0 7			2,98,724 10 2	2,75,000 0 0
	Miscellaneous Fees.			
4,752 6 0	Battakee, notice fees, &c.	5,418 5 6		
23,366 6 10	Projecting verandahs, balconies, &c.	16,890 14 6		
3,846 0 0	Opening Roads	2,317 8 0		
7,148 13 9	Scaffolding	11,477 2 2		
2,962 8 0	Occupying Public Road	3,695 0 0		
3,725 14 0	Digging graves	3,983 4 0		
6,269 12 0	Removing dead animals	7,660 0 0		
39,200 0 0	Skinning dead animals	38,590 0 0		
1,138 0 0	Municipal Laboratory fees	1,313 8 0		
1,130 0 0	Fees for vaccine instructions	540 0 0		
2,067 12 8	Fees for vaccinating persons at private places. Fees for admission to the Sanitary Depart- ment	318 4 0		
130 0 0	Fees for clinical instructions	100 0 0		
1,320 0 0	License fee for selling milk in the City	630 0 0		
1,127 4 0	Misc. supplying copies of office records	6,401 4 0		
2,162 14 0		2,172 12 0		
1,00,347 11 3			1,01,217 14 2	1,00,000 0 0
9,554 13 1	Unclaimed wages lapsed to revenue ... ..	.....	7,580 4 8	12,000 0 0
41,603 14 5	Contribution from Municipal Servants towards pension, &c., fund ... ..	.....	45,005 6 2	45,000 0 0
.....	Interest and profit on Investments of Surplus Loan and other Balances ... ..	.....	.....	.....
87,730 6 4	Loan Funds Investments	1,24,229 12 11	.....	.....
1,83,414 5 10	Surplus Funds Investments	2,36,867 9 9	.....	.....
2,76,144 12 2			3,51,097 6 8	2,00,000 0 0
13,777 0 3	Profit on Municipal workshops ... ..	.....	8,604 9 6	.....
3,954 1 8	Sale proceeds of unserviceable tools, plants, &c. ... ..	.....	15,508 5 1	10,000 0 0
2,015 12 3	Actual profit on sale of stores to contractors ... ..	.....	9,358 12 2	10,000 0 0
14,87,859 13 8			15,69,475 9 11	13,47,000 0 0
1,38,31,070 2 10	Total Rs. ... ..	.....	1,40,48,739 7 0	1,31,75,000 0 0
.....	Less ... ..	.....	.....	.....
.....	Net Increase Rs. ... ..	.....	.....	.....

W. E. WAITE,

Chief Accountant.

No. I—concluded.**C O M E.**

contrasted with the Actuals for 1915-16, the Original Budget Estimate and the Revised Estimate.

Revised Estimate for 1916-17.	Compared with the Actuals for 1915-16.		Compared with the Original Estimate.		Compared with the Revised Estimate.	
	Increase.	Decrease.	More.	Less.	More.	Less.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
83,89,400 0 0	94,620 8 8	1,64,430 4 0	4,69,220 8 9	1,427 13 9	1,44,054 9 9	1,661 14 9
39,55,600 0 0	2,05,863 3 3	.....	1,88,471 2 1	.....	43,334 4 2	1,363 2 1
7,11,000 0 0	45,052 15 4	12 6 0	38,105 12 8	669 7 4	2,105 12 8	669 7 4
3,00,000 0 0	.....	54,341 6 5	28,724 10 2	.....	.....	1,275 5 10
1,03,000 0 0	870 2 11	.....	1,217 14 2	.....	.....	1,782 1 10
8,000 0 0	.....	3,024 8 5	.....	4,469 11 4	.....	469 11 4
48,090 0 0	3,401 7 9	.....	5 6 2	.....	.....	2,994 9 10
.....						
3,10,000 0 0	74,982 10 6	.....	1,51,097 6 8	.....	41,097 6 8	.....
5,000 0 0	.....	5,172 6 9	8,604 9 6	.....	3,604 9 6	.....
14,000 0 0	11,554 3 5	.....	5,508 5 1	.....	1,508 5 1	.....
10,600 0 0	7,334 15 11	.....	.....	649 9 10	.....	649 3 10
15,09,000 0 0	1,43,166 7 10	61,550 11 7	2,28,264 0 5	5,788 6 6	68,316 1 11	7,840 8 0
1,38,04,000 0 0	4,43,650 3 9	2,25,980 15 7	8,80,955 11 8	7,216 4 3	2,55,604 15 10	10,865 8 10
.....	2,25,980 15 7	.....	7,216 4 3	.....	10,865 3 10	.....
.....	2,17,669 4 2	.....	8,73,739 7 0	.....	2,44,739 7 0	.....

P. W. MONIE,
Municipal Commissioner.

Appendix

EXPEN

STATEMENT showing the Actuals as compared with the Final Sanctioned Grants for

Actuals for 1915-16.	PARTICULARS.	Details of Actuals for 1916-17.	Actuals for 1916-17.	Final Grants sanctioned for Expenditure during 1916-17.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
	General Superintendence.			
88,862 13 4	Corporation and -Standing Com- mittee's Establishment	86,164 14 2		86,570 8 0
64,831 8 10	Municipal Commissioner's Personal Office Establishment	72,592 2 10		72,781 11 11
81,736 8 9	General Office Establishment	75,245 2 11		88,966 6 11
89,729 0 4	Accounts and Expenditure Audit Establishment	1,05,011 6 5		1,05,293 12 7
3,19,659 15 3		.....	†3,89,013 10 4	3,53,612 7 5
	Assessment and Collection Department.			
2,18,057 9 0	Property and Wheel Tax Establish- ment	2,41,326 9 1		2,49,166 10 9
1,15,475 14 4	Town Duty Collection... ..	1,25,889 8 11		1,26,098 2 8
412 8 0	Tolls Collection	377 4 0		450 0 0
28,270 12 0	Licensing Establishment	28,569 4 0		29,719 0 0
89,421 11 4	Revenue and Refund Audit Establish- ment	97,234 14 0		99,489 0 0
4,51,638 6 8		.....	†4,93,397 8 0	5,04,922 13 5
	Fire Brigade.			
1,53,220 8 6	Fire Brigade	1,55,701 12 3		2,00,335 7 7
5,880 0 0	Interest on the Fire Brigade Portion of the 55 Lakhs Loan	5,880 0 0		5,880 0 0
18,000 0 0	Interest on the Fire Brigade Loan of 4½ Lakhs	17,780 0 0		19,610 0 0
8,283 12 11	Instalments in respect of Fire Bri- gade Loans of 4½ Lakhs	8,320 5 3		8,570 0 0
3,250 0 0	Instalments in respect of Fire Bri- gade Loans of 55 Lakhs	3,250 0 0		3,250 0 0
3,820 13 7	New Works	1,665 10 4		5,250 8 0
1,92,455 3 0		.....	1,92,597 11 10	2,42,895 15 7
	Maintenance of Public Gardens.			
75,062 13 6	Victoria Gardens maintenance	73,926 0 11		92,649 6 6
1,265 11 3	Elphinstone Circle Garden	1,438 13 7		1,562 0 0
159 1 9	Falkland Road Garden	254 12 2		334 0 0
981 3 8	Northbrook Garden	1,456 8 7		1,497 0 0
183 9 8	Sir Cawasji Jehangir Garden at Mahim	188 14 10		225 0 0
24 14 6	Bazar Gate Street Garden	357 3 1		631 0 0
149 15 2	Dick's Tank Garden	273 5 11		369 0 0
114 0 2	Malabar Hill Garden ... ..	.....		.....
2,931 8 10	Ksplanade Band Stand Garden	3,616 8 10		3,949 0 0
1,081 9 6	Chowpati Band Stand	688 2 6		1,058 6 6
380 12 2	Flora and Wellington Fountains and the Queen's Statue	287 5 8		325 0 0
7,403 0 9	New Works	8,011 14 10		16,099 12 11
89,738 4 11		.....	90,489 10 11	1,18,699 9 11
10,53,491 13 10	Carried forward...Rs.	.....	11,15,498 9 1	12,20,130 14 4

† Of this Rs. 42,376-11-3 are charged to Water Works Account.

† " " 72,397-15-6 " " " "

No. 2.**DITURE.**

1916-1917 and the Actuals for the preceding year.

Fiscal Grants compared with the Actuals.			Compared with Actuals for 1915-16.	
Balances unexpended.	Required to be renewed in 1917-18.	Net savings.	Increase.	Decrease.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
405 9 10	1 10 7	403 15 3	2,302 0 10	.....
189 9 1	97 10 8	91 14 5	8,360 10 0	.....
13,721 4 0	9,987 5 11	3,733 14 1	.....	6,491 5 10
282 16 2	.....	282 6 2	15,282 6 1	.....
14,598 13 1	10,086 11 2	4,512 1 11	25,845 0 11	6,491 5 10
7,840 1 8	5,350 15 8	2,489 2 0	23,269 0 1	.....
208 9 9	208 9 9	.....	10,413 10 7	.....
72 12 0	16 0 0	56 12 0	.....	35 4 0
1,149 12 0	751 4 3	398 7 9	298 8 0	.....
2,254 2 0	1,736 0 0	518 2 0	7,813 2 8	.....
11,525 5 5	8,062 13 8	3,462 7 9	41,794 5 4	35 4 0
44,633 11 4	41,058 3 0	3,575 8 4	3,481 3 9	.....
.....				
1,830 0 0	1,830 0 0	.....	.....	220 0 0
249 10 9	.....	249 10 9	36 8 4	.....
.....				
3,584 13 8	3,361 3 5	223 10 3	.....	2,155 3 3
50,298 3 9	46,249 6 5	4,048 13 4	2,517 12 1	2,375 3 3
18,723 5 7	13,896 5 1	4,827 0 6	.....	1,136 12 7
133 2 5	15 0 0	118 2 5	163 2 4	.....
79 3 10	24 0 0	55 3 10	95 10 5	.....
40 7 5	.....	40 7 5	475 4 11	.....
36 1 2	.....	36 1 2	5 5 2	.....
273 12 11	10 0 0	263 12 11	332 4 7	.....
95 10 1	.....	95 10 1	123 6 9	.....
.....	.....	.....	.....	114 0 2
332 7 2	90 0 0	242 7 2	685 0 0	.....
370 4 0	5 0 0	365 4 0	.....	393 7 0
37 10 4	10 0 0	27 10 4	.....	93 6 6
8,087 14 1	7,102 4 2	985 9 11	608 14 1	.....
28,209 15 0	21,152 9 3	7,057 5 9	2,489 0 3	1,737 10 3
1,04,632 5 3	85,551 8 6	19,080 12 9	72,646 2 7	10,639 7 4

Appendix

Actuals for 1915-16.	PARTICULARS.	Details of Actuals for 1916-17	Actuals for 1916-17.	Final Grants sanctioned for Expenditure during 1916-17.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
10,53,491 13 10	Brought forward ...	.....	11,15,498 9 1	12,20,130 14 4
	Public Works (Engineer's Department).			
94,577 9 6	I.—General Supervision and Miscellaneous Duties ... ..	.....	\$ 97,617 2 4	98,930 11 0
	II.—Mechanical Branch—			
36,277 9 11	Maintenance of Compressor Station, Colaba (Shone system)	37,866 7 2		39,618 0 0
1,62,533 7 1	Maintenance of Love Grove Pumping Station	1,73,767 6 8		1,76,891 0 0
1,05,164 6 9	Maintenance of Air Compressor Station at Love Grove (Shone system)	1,25,146 13 1		1,45,234 0 0
2,817 6 6	Maintenance of Storm Water Sluices	2,321 13 1		2,576 0 0
	Working the Oil Engine and Pump at Worli Sluices ...	1,017 7 10		1,901 0 0
3,06,792 14 8			3,40,119 14 10	3,66,220 0 0
88,542 3 3	III.—Sanitary Disposal of Town Sweepings ... ..	.....	92,486 6 2	98,431 14 0
2,73,007 6 0	IV.—Drainage—			
2,988 13 7	A.—Miscellaneous Drainage...	2,76,196 3 9		3,06,031 0 0
2,75,996 3 7	B.—Maintenance of Sluices ...	2,878 1 11		3,432 0 0
			2,79,074 5 8	3,09,463 0 0
	V.—Streets and Buildings—			
1,99,759 14 10	A.—Inspection and Supervision	2,42,497 13 2		2,44,198 13 2
4,25,678 11 1	B.—Public Lighting	4,75,365 12 5		5,24,246 13 7
80,727 0 8	C.—Road Watering	96,302 10 11		1,07,143 9 5
1,02,936 9 0	CI.—Oiling and Tarring Roads (Experimental) ...	75,975 6 3		1,00,000 0 0
6,87,776 12 4	D.—Roads and Footpaths, &c. ...	7,38,689 3 2		8,20,523 10 0
1,32,969 3 3	E.—Street Improvements ...	1,53,779 2 6		2,14,706 8 7
84 1 4	F.—Miscellaneous (compensation to house owners for Insanitary Buildings demolished)	148 11 7		850 0 0
16,29,932 4 6			17,82,758 12 0	20,11,669 6 9
43,238 0 0	VI.—Cleaning, Lighting and Repairing Port Trust Wharves, Dock Roads, &c. ... ..	.....	43,238 0 0	43,238 0 0
3,52,684 15 8	VII.—Water Works ... ..	.....	3,58,650 8 7	4,36,484 13 9
27,91,764 2 4	Total—Public Works (Engr. Dept.)	.....	29,93,945 1 7	33,64,437 13 6
2,21,419 5 11	New Works.	.....	* 1,67,825 1 10	3,69,463 2 6
	Public Health Department.			
1,37,266 9 9	General Supervision	1,44,356 11 9	.....	1,44,473 0 0
17,70,330 2 4	Conservancy Branch	18,31,966 10 5	.....	18,79,500 14 1
1,91,471 1 1	Markets and Slaughter Houses ...	2,26,968 5 3	.....	2,69,441 8 0
93,695 3 10	Registration of Births and Deaths...	98,020 10 7	.....	1,02,498 0 0
10,812 2 2	Cemeteries	11,188 0 8	.....	12,680 12 9
12,352 9 8	Laboratory	16,245 8 10	.....	21,250 7 3
13,487 10 6	Mahaluximi Dhobhiwada	18,457 0 0	.....	22,540 0 0
6,977 3 8	Milch Cattle Stables and Rooms ...	7,846 15 5	.....	8,655 0 0
.....	Supervision of City Milk Supply ...	4,017 9 7	.....	4,800 0 0
16,113 2 2	Dispensaries	17,155 9 9	.....	17,912 0 0
589 11 11	Rustomji Jamsbedji Dharamsala ...	326 4 3	.....	668 0 0
58,158 8 7	Infectious Diseases	79,844 13 8	.....	94,377 7 0
31,618 10 6	Vaccination	32,463 9 9	.....	36,342 0 0
44,957 2 4	Malaria	43,958 13 8	.....	47,903 0 0
23,92,834 14 6	Public H. Dept. Carried over Rs. ...	25,32,816 11 7	.....	26,63,042 1 1
40,66,675 6 1	Carried over Rs. ...	.....	42,77,368 12 6	49,54,031 14 4

\$ Of this Rs. 16,269-8-4 are chargeable to Water Works Account.

* " " 38,940-0-0 " " " "

No. 2.—continued.

Final Grants compared with the Actuals.			Compared with Actuals for 1915-16.	
Balances unexpended.	Required to be renewed in 1917-18.	Net savings.	Increase.	Decrease.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,04,632 5 3	85,551 8 6	19,080 12 9	72,646 2 7	10,639 7 4
1,313 8 8	219 3 0	1,094 5 8	3,039 8 10	.....
1,751 8 10	.....	1,751 8 10	1,588 13 3	.....
3,123 9 4	596 0 0	2,527 9 4	11,233 15 7	.....
20,087 2 11	17,788 12 11	2,298 6 0	19,982 6 4	.....
254 3 11	.....	254 3 11	521 13 5	.....
883 8 2	.....	883 8 2	.....	.....
26,100 1 2	18,384 12 11	7,715 4 3	33,527 0 7	.....
5,945 7 10	5,257 8 1	687 15 9	3,644 2 11	.....
29,854 12 3	20,619 6 6	9,215 5 9	3,188 13 9	.....
553 14 1	.....	553 14 1	.....	110 11 8
30,388 10 4	20,619 6 6	9,769 3 10	3,188 13 9	110 11 8
1,701 0 0	929 15 4	771 0 8	42,737 14 4	.....
48,381 1 2	29,967 0 2	18,914 1 0	49,687 1 4	.....
10,840 14 6	10,314 14 10	525 15 8	15,575 10 3	.....
24,024 9 9	4,700 0 0	14,324 9 9	.....	26,961 2 9
81,834 6 10	77,382 8 10	4,451 14 0	50,912 6 10	.....
60,927 6 1	56,987 11 10	3,939 10 3	20,809 15 3	.....
701 4 5	.....	701 4 5	64 10 3	.....
2,28,910 10 9	1,85,282 3 0	43,628 7 9	1,79,787 10 3	26,961 2 9
.....				
77,834 5 2	17,315 8 4	60,518 12 10	5,965 9 4	.....
3,70,492 11 11	2,47,078 9 10	1,23,414 2 1	3,29,252 13 8	27,071 14 5
2,01,638 0 8	1,93,631 9 6	8,006 7 2	.....	53,594 4 1
116 4 3	57 0 0	59 4 3	7,090 2 0	.....
47,534 3 8	43,802 12 11	3,731 6 9	61,636 8 1	.....
42,473 2 9	31,450 5 4	11,022 13 5	35,497 4 2	.....
4,477 5 5	360 10 0	4,116 11 5	4,325 6 9	.....
1,492 12 1	417 0 0	1,075 12 1	375 14 6	.....
5,004 14 5	4,237 12 0	767 2 5	3,892 15 2	.....
4,083 0 0	3,849 9 5	233 6 7	.....	50 10 6
898 0 7	463 3 4	344 13 3	369 11 9	.....
782 6 5	1 12 7	780 9 10	4,017 9 7	.....
756 6 3	598 0 0	158 6 3	1,087 7 7	.....
341 11 9	.....	341 11 9	.....	263 7 8
14,532 9 4	2,701 15 9	11,830 9 7	21,686 5 1	.....
3,878 6 3	2,549 5 0	1,329 1 3	844 15 3	.....
3,944 2 4	1,459 6 7	2,484 11 9	.....	998 4 8
1,30,225 5 6	91,948 12 11	38,276 8 7	1,41,274 3 11	1,292 6 10
6,76,763 1 10	5,26,261 11 10	1,50,501 6 0	3,01,899 0 3	91,305 9 10

Appendix

Actuals for 1915-16.	PARTICULARS.	Details of Actuals for 1916-17.	Actuals for 1916-17.	Final Grants sanctioned for Expenditure during 1916-17.
Rs. a. p. 40,66,675 6 1	Brought forward ...	Rs. a. p.	Rs. a. p. 42,77,268 12 6	Rs. a. p. 49,54,081 14 4
23,92,834 14 6	Public Health Department —contd. and brought forward ...	25,32,816 11 7		26,63,042 1 1
	Plague— Rs. a. p.			
30,656 0 10	1. Free Medical Relief, Maratha Hospital... 27,135 13 2			27,743 0 0
7,439 9 7	2. Maintenance of Camps including construction, rene- wal, &c ... 10,032 7 8			20,229 0 0
1,201 3 0	3. Net Municipal con- tribution to private Hospital Dispensa- ries, &c ... 584 3 1			3,000 0 0
131 0 0	4. Fees for Notifica- tion of Plague cases. 395 0 0			760 0 0
15,145 0 7	5. General Supervi- sion ... 14,668 0 4			14,750 0 0
21,759 7 8	6. Disinfection ... 20,386 0 7			25,000 0 0
10,899 6 7	7. Registration ... 10,785 11 3			10,800 0 0
45,860 3 5	8. Rat destruction ... 45,484 14 0			45,534 0 0
75 11 0	9. Inoculation ... 11 13 8			240 0 0
243 14 6	10. Discretionary Re- lief ... 573 8 7			725 0 0
.....	11. Unforeseen char- ges			50 0 0
1,22,911 9 2		1,39,957 8 4		1,48,830 0 0
575 15 1	Lethal Chamber for Dogs ...	1,038 11 7		2,568 0 0
25,16,322 6 9			26,63,812 15 6	28,14,440 1 1
	General Stores Estab- lishment.			
38,276 13 0	Establishment and Contingencies, &c.	.....	40,538 4 10	43,430 10 6
4,62,000 0 0	Primary Education ...	.....	5,10,000 0 0	5,10,000 0 0
	Education.			
3,000 0 0	School for Deaf and Dumb Mutes ...	3,000 0 0		3,000 0 0
2,500 0 0	Veterinary College ...	2,500 0 0		2,500 0 0
16,288 3 2	Victoria and Albert Museum ...	15,745 3 11		22,087 15 0
20,000 0 0	Victoria Jubilee Technical Institute.	20,000 0 0		20,000 0 0
25,000 0 0	Prince of Wales Museum ...	25,000 0 0		25,000 0 0
12,057 11 8	Schools Committee Establishment ...	13,127 9 3		13,324 0 0
2,500 0 0	Victoria Memorial School for the Blind	2,500 0 0		2,500 0 0
81,315 14 10			81,872 13 2	88,311 15 0
	Hospitals.			
4,14,500 0 0	Medical Institutions ...	4,14,500 0 0		4,14,500 0 0
17,810 0 0	Leper Asylum at Matunga ...	15,960 0 0		15,960 0 0
4,000 0 0	Adams-Wylie Hospital ...	4,000 0 0		4,000 0 0
1,500 0 0	Bombay Sanitary Association ...	1,500 0 0		1,500 0 0
4,37,810 0 0			4,35,960 0 0	4,35,960 0 0
	Miscellaneous.			
1,15,167 5 9	Pensions, Gratuities and Compassion- ate Allowances ...	1,46,580 9 6	.....	1,54,733 14 8
2,656 13 5	Discretionary Contingencies ...	5,658 8 5	.....	9,310 0 0
10,000 0 0	Auditors' Allowances ...	10,000 0 0	.....	10,000 0 0
70,989 1 7	Local Allowance ...	37,414 0 6	.....	37,495 0 0
10,000 0 0	Contribution towards the expenses of the King George V. Anti-Tuber- culosis League ...	10,000 0 0	.....	10,000 0 0
.....	Cost of Address to be presented to the retiring Viceroy and the Viceroy designate ...	4,256 11 0	.....	4,360 0 0
2,08,813 4 9	Mis.—contd. and carried over ...	2,13,909 13 5	.....	2,26,338 14 8
76,02,430 8 8	Carried over ...	.....	80,09,452 13 0	88,46,174 8 11

No. 2.—continued.

Final Grants compared with the Actuals.			Compared with Actuals for 1915-16.	
Balances unexpended.	Required to be renewed in 1917-18.	Net savings.	Increase.	Decrease
Rs. a. p. 6,76,763 1 10	Rs. a. p. 5,26,261 11 10	Rs. a. p. 1,50,501 6 0	Rs. a. p. 3,01,899 0 3	Rs. a. p. 91,805 9 10
1,30,225 5 6	91,948 12 11	38,276 8 7	1,41,274 3 11	1,292 6 10
606 2 10	.....	606 2 10	.....	.. ..
10,196 8 4	10,196 8 4	.....	.....	.....
2,415 12 11	500 0 0	1,915 12 11	.. ..	.....
365 0 0	100 0 0	265 0 0	.....	.....
81 15 8	81 15 8	.....	.....	.....
4,713 15 5	1,200 0 0	3,513 15 5	.....	.....
14 4 9	.....	14 4 9	.....	.....
49 2 0	49 2 0	.....	.....	.....
228 2 4	.....	228 2 4	.....	.....
151 7 5	.....	151 7 5	.....	.....
50 0 0	.. ..	50 0 0	.....	.....
18,872 7 8	12,127 10 0	6,744 13 8	7,045 15 2	... ..
1,529 4 5	.....	1,529 4 5	462 12 6	.....
1,50,627 1 7	1,04,076 6 11	46,550 10 8	1,48,782 15 7	1,292 6 10
2,892 5 8	2,107 5 5	785 0 3	2,261 7 10	.....
.....	.....	.....	48,000 0 0	.....
.....				
6,342 12 1	6,341 14 0	0 14 1	.....	543 0 3
.....				
96 6 9	27 6 8	69 0 1	1,069 13 7	.....
.....				
6,439 2 10	6,369 4 8	69 14 2	1,069 13 7	543 0 3
.....				
.....	.....	.....	.....	1,850 0 0
.....				
.....	.....	.....	.....	1,850 0 0
8,153 5 2	8,000 0 0	153 5 2	31,413 3 9	.....
4,151 7 7	1,588 0 0	2,563 7 7	3,001 11 0	.....
.....	80 0 0	.....	.....	33,575 1 1
80 15 6	.....	0 15 6	.....	.....
.....				
48 5 0	.....	48 5 0	4,256 11 0	...
12,429 1 3	9,668 0 0	2,761 1 3	38,671 9 9	33,575 1 1
8,36,721 11 11	6,38,814 12 10	1,97,906 15 1	5,02,013 5 3	94,991 0 11

Appendix

Actuals for 1916-16.	PARTICULARS.	Details of Actuals for 1916-17.	Actuals for 1916-17.	Final Grants sanctioned for Expenditure during 1916-17.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
76,92,490 8 8	Brought forward ...	.....	80,09,452 13 0	88,46,174 8 11
2,08,813 4 9	Miscellaneous—contd.	2,13,909 13 5	.....	2,26,338 14 8
1,500 0 0	Payment of a moiety (not exceeding Rs. 1,500) of the remuneration to be paid to Mr. W. A. Chambers for fixing the rateable value of buildings and lands in the City of Bombay vesting in His Majesty and beneficially occupied ...	.....	.....	.....
2,884 8 0	Payment of a bonus equivalent to half a month's pay to certain employes of the Health Department for special work done in connection with conservancy work of Military Camps during the embarkation of the Indian Expeditionary Force ...	.....	.....	.....
1,030 0 0	Contribution towards the expenses of publishing a book called "the Milk Problem in Indian Cities" by Dr. L. L. Joshi, Municipal Analyst ...	.....	.....	.....
.....	Increases to staff ...	15,952 2 10	.....	15,953 0 0
.....	Portion of the difference between the book value and sale proceeds of second-hand surplus and obsolete stores of the Stores Department written off ...	1,100 0 0	.....	1,100 0 0
.....	Increased rates paid to certain Contractors in respect of certain articles of stores purchased during 1914-15 ...	7,205 11 10	.....	7,205 11 10
.....	Part of the difference between the book value and the sale proceeds of unserviceable articles of the Stores Department written off ...	832 0 0	.....	832 0 0
2,14,197 12 9			2,38,999 12 1	2,51,429 10 6
10,17,420 1 8	Contribution to the City Improvement Trust under Section 72 (1) of the Act IV of 1898 ...	.....	11,01,288 9 0	11,01,288 9 0
25,000 0 0	Contribution towards the cost of Cadastral Survey of the Town and Island of Bombay ...	.....	25,000 0 0	25,000 0 0
	Municipal Debt.			
29,62,243 11 11	Interest on Loans ...	*33,04,835 6 5		34,92,608 6 6
14,357 6 2	Charges on Loans ...	15,370 0 4		16,200 8 9
1,45,696 12 0	Payment towards reduction of debt...	1,63,780 8 0		1,97,780 8 0
8,12,523 8 4	Payment towards the investment of Sinking Fund ...	9,27,118 7 3		9,27,118 7 3
39,34,821 6 5			44,11,104 6 0	46,33,707 14 6
	Investment.			
10,000 0 0	Municipal Fire and Accident Insurance Fund ...	.....	10,000 0 0	10,000 0 0
.....	Discount on the conversion of 3 per cent. and 3½ per cent. Government Paper into 4 per cent. Conversion Loan of 1916-17 ...	.....	1,20,312 0 0	1,20,312 0 0
.....	Investment of the Sale proceeds of Municipal lands into the Municipal Lands and Buildings Fund ...	.....	2,98,134 11 9	2,98,134 11 9
1,28,03,869 13 6		.....	1,42,14,292 3 10	1,52,86,047 6 8

W. E. WAITE,
Chief Accountant.

* In addition to this sum, Rs. 23,660 in all is shown under Fire Brigade, making Rs. 33,28,495-6-5 in all, *Vide* col. 8, App. 9.

No. 2—continued.

Final Grants compared with Actuals.			Compared with Actuals for 1915-16.	
Balances unexpended.	Required to be renewed in 1917-18.	Net savings.	Increase.	Decrease.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
8,36,721 11 11	6,38,814 12 10	1,97,906 15 1	5,02,013 5 3	94,991 0 11
12,429 1 3	9,668 0 0	2,761 1 3	38,671 9 9	38,575 1 1
.....	.....	.....	.....	1,500 0 0
.. ...	.....	.....	.....	2,884 8 0
.....	.....	.....	.....	1,000 0 0
0 18 2	.....	0 13 2	15,952 2 10	.....
.....	.....	.....	1,100 0 0	.....
... ..	.....	.....	7,205 11 10	.....
.....	.....	.....	832 0 0	.....
12,429 14 5	9,668 0 0	2,761 14 5	63,761 8 5	38,959 9 1
.....	.....	.....	83,868 7 4	... ..
.....				
1,87,773 0 1	1,87,012 7 1	760 9 0	3,42,591 10 6	.....
830 8 5	.....	830 8 5	1,012 10 2	.....
34,000 0 0	34,000 0 0	... ..	18,083 12 0	.....
.....	... ..	.....	1,14,594 14 11	.. ...
2,22,603 8 6	2,21,012 7 1	1,591 1 5	4,76,282 15 7	.....
.. ...				
.....	.....	.....	1,20,312 0 0	.....
.....	.....	.....	2,98,134 11 9	.....
10,71,755 2 10	8,69,495 3 11	2,02,259 14 11	15,44,373 0 4	1,38,950 10 0

P. W. MONIE,
Municipal Commissioner.

Appendix No. 3.

Revenue Account for the year ended 31st March 1917.

	Rs.	a.	p.	Rs.	a.	p.
Receipts as per Appendix No. 1	...	...	...	1,40,48,739	7	0
Payments as per Appendix No. 2	...	...	...	1,42,14,292	3	10
Excess Payments over Receipts	...	...	...	1,65,552	12	10
Less—						
<i>Decrease in outstanding liabilities.</i>						
(1) On account of grants renewed	...	...	...	1,29,266	5	0
(2) In Payment to City Improvement Trust	...	...	...	3,175	10	9
				1,32,441	15	9
Net deficit for the year	...	...	...	33,110	13	1
Surplus Revenue Fund as at 1st April 1916	...	...	...	46,59,288	15	9
Excess of Expenditure over Income as above	...	...	...	33,110	13	1
Surplus Revenue Fund as at 31st March 1917 as per Appendix No. 5	...	...	...	46,26,178	2	8*

* This includes Rs. 1,00,000 being minimum required by law and Rs. 5,35,266-15-6 being Reserve Stock Balances as at 31st March 1917.

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

Appendix No. 4.

Statement of Special Funds for 1916-17.

Municipal Fire and Accident Insurance Fund. Year ended
31st March 1917.

	<i>Dr.</i>	<i>Cr.</i>
	Rs. a. p.	Rs. a. p.
Balance on 1st April 1916 ... ..	.....	2,16,978 3 2
Municipal Contribution for year ... ..	.....	10,000 0 0
Interest realized ... ..	.....	7,863 2 8
For repairing the damage caused by fire to Municipal Kutchra Motor Car No. 90	507 8 4	.....
Balance on 31st March 1917 as per Balance Sheet, Appendix No. 5.	2,34,338 13 6	.....
Total Rs. ...	2,34,346 5 10	2,34,346 5 10

Worn out Water Mains Renewal Fund. Year ended 31st March 1917.

	Rs. a. p.	Rs. a. p.
Balance on 1st April 1916 ... ..	.....	5,69,485 15 5
Interest realized ... ..	.....	20,086 14 4
Recoupment of the advance made during 1915-16 to meet the expenditure on the work of laying 6" water mains one on each side of Sandhurst Road between Dongri Street and Chinch Bunder Road .. ..	.....	5,546 13 5
Balance on 31st March 1917 as per Balance Sheet Appendix No. 5.	5,95,119 11 2	.....
Total Rs. ..	5,95,119 11 2	5,95,119 11 2

Net Premia Fund. Year ended 31st March 1917.

	Rs. a. p.	Rs. a. p.
Balance on 1st April 1916 ... ..	.....	1,34,164 10 7
Interest realized ... ..	.....	5,292 6 4
Extra Interest realizations on Sinking Fund's Investments ... ..	.....	48,103 12 6
Sale of water marked Paper ... ..	.....	117 1 0
Balance on 31st March 1917 as per Balance Sheet, Appendix No. 5.	*1,87,680 14 5	.....
Total Rs. ...	1,87,680 14 5	1,87,680 14 5

Municipal Lands and Buildings Fund. Year ended 31st March 1917.

	Rs. a. p.	Rs. a. p.
Balance on 1st April 1916 ... ..	.....	.....
Municipal Contribution for the year ... ..	.....	2,98,134 11 9
Interest realized ... ..	.....	4,899 7 2
Balance on 31st March 1917 as per Balance Sheet, Appendix No. 5.	3,03,034 2 11	.....
Total Rs. ...	3,03,034 2 11	3,03,034 2 11

* Of this Rs. 79,723-13-10 belong to the Water Works Account.

W. E. WAITE,
Chief Accountant.P. W. MONIE,
Municipal Commissioner.

Appendix**REVENUE ACCOUNT BALANCE**

Liabilities.								Rs.	a.	p.	Rs.	a.	p.
Debts—													
Due on Cheques payable...	...	...	...	...	...	...	...	1,78,605	11	4			
„ Stores purchased, Outstanding Accounts ...	...	...	...	...	...	...	...	45,872	9	5			
„ Outstanding Charges for 1916-17 and previous years ...	...	...	...	...	...	...	...	8,69,495	3	11			
City Improvement Trust—													
Contribution due to them from Revenue for 1916-1917 ...	...	...	...	...	...	...	...	10,98,112	14	3			
Deposits in Cash and Paper from Contractors and private parties ...	...	...	...	...	...	...	...	9,05,003	4	11			
Government of Bombay—													
Taxes, &c. ...	...	...	...	...	...	...	...	6,145	5	4			
Bank of Bombay on account of Contractors' securities held under objection ...	...	...	...	...	...	...	...	300	0	0			
											31,03,535	1	2
Trust Funds—													
Deposits held from private parties on account of public monuments—													
Maintenance of Sir Mangaldass Nathoobhoy's clock ...	...	...	...	...	...	...	...	500	0	0			
Do. Ranade Memorial...	...	...	...	...	...	...	...	1,200	0	0			
Do. J. N. Tata Memorial ...	...	...	...	...	...	...	...	1,200	0	0			
Do. a Charitable Dispensary at Kamatipura, opened by Rao Bahadur Ellapa Balaram.....	...	...	...	...	...	...	...	19,500	0	0			
Do. a Charitable Dispensary at Kamatipura, opened in the name of the late Mr. Rajanna Jalooji ...	...	...	...	...	...	...	...	10,700	0	0			
Do. Mr. Casamalli Jairajbhoy Peerbhoy's fountain at the junction of Hornby and Palton Roads ...	...	...	...	...	...	...	...	5,000	0	0			
											38,100	0	0
Suspense Accounts—													
Profit on Sales of Stores ...	...	...	...	...	...	...	...	627	14	0			
Stock adjustment account ...	...	...	...	...	...	...	...	1,239	14	1			
Supervision charges on stores sold ...	...	...	...	...	...	...	...	117	11	11			
Loan Works Establishment ...	...	...	...	...	...	...	...	17,869	15	8			
											19,855	7	8
Special Funds as at 31st March 1917—													
Fire and Accident Insurance Fund ...	...	...	...	...	...	...	...	2,34,333	13	6			
Net Premia Fund ...	...	...	...	...	...	...	...	1,87,680	14	5			
Worn out Water Mains Renewal Fund ...	...	...	...	...	...	...	...	5,95,119	11	2			
Municipal Lands and Buildings Fund as per Appendix No. 4 ...	...	...	...	...	...	...	...	3,03,034	2	11			
											13,20,173	10	0
Carried forward Rs. ...								.....			44,81,664	2	10

No. 5.

SHEET AS AT 31st MARCH 1917.

Assets.										Rs.	a.	p.	Rs.	a.	p.
Cash in Office and in Bank...	...	...	...	...	...	...	...	...	...	.....			3,58,736	7	11
Debts—															
Due for stores sold	...	...	...	...	...	...	...	...	...	.....			25,566	3	5
Stock—															
Stock	...	...	...	...	...	...	...	...	...	4,39,210	1	3			
Water Works Imprest	...	...	...	...	...	...	...	...	...	3,088	13	3			
Executive Engineer's General...	...	...	...	...	...	...	...	...	...	610	8	0			
Line Suspense Account...	...	...	...	...	...	...	...	...	...	89,175	1	0			
Surplus and Obsolete Stores	...	...	...	...	...	...	...	...	...	3,182	8	0			
													5,55,266	15	6
Advances Recoverable—															
To Municipal Officers, &c.	...	...	...	...	...	...	...	...	...	47,218	9	8			
Miscellaneous Advances...	...	...	...	...	...	...	...	...	...	2,28,020	8	5			
Private and Departmental Works including Workshops	...	...	...	...	...	...	...	...	...	81,125	1	0			
Printing and Stamping, Building and Repair Certificates Forms	...	...	...	...	...	...	...	...	...	59	8	8			
Contractors	...	...	...	...	...	...	...	...	...	144	12	5			
New Works to be subsequently provided for under a New Loan to be raised, as per <i>Appendix No. 14</i>	...	...	...	...	...	...	...	...	...	6,13,580	9	8			
To Chief Auditor and Accountant, G. I. P. Railway	...	...	...	...	...	...	...	...	...	43,075	0	0			
													10,13,224	1	10
Deposits in paper with Bank of Bombay—															
On Contractors' Account	...	...	...	...	...	...	...	...	...	2,92,000	0	0	.....		
Public Monuments Account	...	...	...	...	...	...	...	...	...	38,100	0	0	3,30,100	0	0
Carried forward	...	...	...	...	...	...	...	...	...	.....			22,62,893	12	8

No. 5.—continued.

SHEET AS AT 31st MARCH 1917.

			Brought over Rs.			Rs. a. p.			Rs. a. p.		
Investments—						.....			22,62,898 12 8		
Special Funds.			Face Value.	Actual cost.	Deposits in Cash and Fixed.						
	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.						
Municipal Fire and Accident Insurance Fund, 5 per cent. Municipal Debentures ...	11,000 0 0		11,000 0 0								
4 per cent. Municipal Debentures ...	10,000 0 0		9,850 0 0								
3½ per cent. Government Paper.	2,03,500 0 0		2,03,393 2 0								
	2,24,500 0 0		2,24,248 2 0		10,095 11 6	2,34,338 13 6					
Net Premia, &c., on different Municipal Loans, 3½ per cent. Government Paper ...	1,88,700 0 0		1,87,580 10 0								
	1,88,700 0 0		1,87,580 10 0		100 4 5	1,87,680 14 5					
Worn-out Water Mains Renewal Fund, 5 per cent. Municipal Debenture ...	1,000 0 0		1,000 0 0								
3½ per cent. Government Paper.	5,94,500 0 0		5,93,668 7 0								
	5,95,500 0 0		5,94,668 7 0		451 4 2	5,95,119 11 2					
Municipal Lands and Buildings Fund, 4 per cent. Government Paper ...	3,03,000 0 0		3,03,000 0 0								
	3,03,000 0 0		3,03,000 0 0		34 2 11	3,03,034 2 11			13,20,173 10 0*		
Surplus Revenue Fund.			Face Value.	Actual Cost.	Deposits:—Cash Current Account and Fixed Deposits.						
4 per cent. Municipal Debentures ...	3,26,500 0 0		3,26,500 0 0								
5 Do. do. ...	1,000 0 0		1,000 0 0								
4 per cent. Port Trust Bonds...	1,000 0 0		1,020 0 0								
3½ per cent. Government Paper.	10,32,000 0 0		10,30,786 14 0								
4 per cent. Government Paper of the Conversion Loan of 1916-17 ...	7,37,000 0 0		7,37,000 0 0								
	20,97,500 0 0		20,96,806 14 0		27,28,468 0 10	48,24,774 14 10			48,24,774 14 10		
Instalment—On Account of Purchase of War Loan, Stock and War Bonds ...									7,00,000 0 0		
									91,07,842 5 6		

* For face, purchase and market values of each type of securities held in the Special Funds, please see Appendix No. 5 A, attached.

P. W. MONIE,
Municipal Commissioner.

Appendix No. 5A.

Comparison of Face, Purchase and Market Values at 31st March 1917 of the different securities held in the Special Funds.

Name of Fund.	Particulars of Securities.	Face value.	Purchase rate.	Actual cost at Purchase rate.	Estimated Market rate.	Value at Market rate.
		Rs.		Rs. a. p.		Rs. a. p.
Municipal Fire and Accident Insurance Fund.	5 per cent. Municipal Debentures.	11,000	Par	11,000 0 0	Par	11,000 0 0
	4 per cent. Municipal Debentures.	10,000	98½ per cent.	9,850 0 0	82%	8,200 0 0
	5½ per cent. Government Paper...	1,82,000	Par	1,82,000 0 0	67%	1,36,345 0 0
	Do. do. ...	500	105 ⁵ / ₁₆ per cent.	526 9 0		
	Do. do. ...	6,000	103 ³ / ₄ "	6,225 0 0		
	Do. do. ...	500	101 "	505 0 0		
	Do. do. ...	6,500	98 ¹¹ / ₁₆ "	6,414 11 0		
	Do. do. ...	500	98 ³ / ₄ "	491 14 0		
	Do. do. ...	3,000	96 ³ / ₈ "	2,898 12 0		
	Do. do. ...	1,000	96 ³ / ₈ "	963 12 0		
	Do. do. ...	3,000	96 ¹ / ₄ "	2,887 8 0		
	Do. do. ...	500	96 "	480 0 0		
		2,24,500		2,24,243 2 0		1,55,545 0 0
Worn-out Water Mains Renewal Fund.	5 per cent. Municipal Debentures.	1,000	Par	1,000 0 0	Par	1,000 0 0
	5½ per cent. Government Paper.	83,500	103 ³ / ₄ per cent.	81,643 12 0	67%	3,98,315 0 0
	Do. do. ...	4,79,000	Par	4,79,000 0 0		
	Do. do. ...	48,500	98 ¹¹ / ₁₆ per cent.	42,929 1 0		
	Do. do. ...	7,000	98 ³ / ₄ "	6,886 4 0		
	Do. do. ...	5,000	96 ³ / ₈ "	4,831 4 0		
	Do. do. ...	28,000	96 ³ / ₁₆ "	26,932 8 0		
	Do. do. ...	1,500	96 ³ / ₈ "	1,445 10 0		
		5,95,500		5,94,668 7 0		3,99,315 0 0
	Carried over ...	8,20,000		8,18,911 9 0		5,54,860 0 0

Appendix No. 5A—concluded.

Name of Fund.	Particulars of Securities.	Face value.	Purchase rate.	Actual cost at Purchase rate.	Estimated Market rate.	Value at Market rate.
		Rs.		Rs. a. p.	Par	Rs. a. p.
	Brought forward ...	8,20,000		8,18,911 9 0		5,54,860 0 0
Net Premia, &c., on different Municipal Loans.	3½ per cent. Government Paper.	500	103½ per cent.	518 12 0	67%	1,26,429 0 0
	Do. do. ...	5,000	96½ "	4,831 4 0		
	Do. do. ...	23,000	96½ "	22,166 4 0		
	Do. do. ...	3,500	96½ "	3,364 6 0		
	Do. do. ...	1,56,700	Par	1,56,700 0 0		
		1,88,700		1,87,580 10 0		1,26,429 0 0
Municipal Lands and Buildings Fund.	4 per cent. Government Paper..	3,03,000	Par	3,03,000 0 0	86%	2,60,580 0 0
	Grand Total ..	13,11,700		13,09,492 3 0		9,41,869 0 0

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

Appendix**CAPITAL FUND BALANCE**

	Rs. a. p.	Rs. a. p.	Rs. a. p.
Loans Outstanding:—			
Due to Government ... ..	.....	21,65,494 7 9	
Due to the Public:—			
Rs. 26,94,000 Drainage Loan of 1878	3,26,000 0 0		
44 Lakhs Sanitary Works Loan of 1885-86	37,39,000 0 0		
7 Lakhs Sanitary Works Loan of 1888	7,00,000 0 0		
147 Lakhs Tansa Water Works Loan	1,47,00,000 0 0		
12 Lakhs Drainage and Water Works Loan	12,00,000 0 0		
Rs. 10,08,500 Miscellaneous Works Loan	10,08,500 0 0		
Rs. 2,48,000 Agripada House Sullage Water Connections Loan.	2,48,000 0 0		
35 Lakhs various Sanitary Works Loan	35,00,000 0 0		
8 Lakhs Municipal Building Loan	8,00,000 0 0		
4½ Lakhs Fire Brigade Quarters and Stations Loan	4,50,000 0 0		
42 Lakhs Loan for repayment of Balance of Government Consolidated Loan	42,00,000 0 0		
23½ Lakhs Drainage and other Works Loan	23,25,000 0 0		
15½ Lakhs for the construction of Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works	15,75,000 0 0		
25 Lakhs Loan for Sewerage, Water and other Sanitary Works.	25,00,000 0 0		
Loan of Rs. 20 Lakhs for Plague charges	20,00,000 0 0		
19½ Lakhs Loan for Sewerage, Roads and other Sanitary Works	19,25,000 0 0		
24½ Lakhs Loan for Sewerage and Water Works	24,75,000 0 0		
12½ Lakhs Loan for certain Water Works of 1904-05	12,75,000 0 0		
2nd 24½ Lakhs Loan for certain Sewerage Works	24,75,000 0 0		
13½ Lakhs Loan for the construction of Quarters for Halalkhores and Biggaries	13,50,000 0 0		
15 Lakhs Loan for Street Improvements	15,00,000 0 0		
30 Lakhs Loan for the acquisition of sites for the construction of various overbridges in the City	30,00,000 0 0		
55 Lakhs Loan for Miscellaneous Works	55,00,000 0 0		
70 Lakhs Loan for the Reduplication of Tansa Main and other Auxiliary Works	70,00,000 0 0		
20 Lakhs Loan for Street Improvements	20,00,000 0 0		
43 Lakhs Loan for Drainage, Water, Roads and Miscellaneous Works	43,00,000 0 0		
		7,20,71,500 0 0	
			7,42,36,994 7 9
Carried forward Rs. ...			7,42,36,994 7 9

No. 6.

SHEET AS AT 31ST MARCH 1917.

Block Account.—

Property and Assets at original cost as per Appendix No. 8	7,99,99,818 14 7
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Unbooked Property.—

Provisional figure as per valuation of 1884 pending revaluation now in progress	45,37,835 11 11
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Land Transferred.—

Bombay Improvement Trust	17,15,289 5 11
---------------------------------	----------------

Investments.—**SINKING FUND :—**

	Face Value.	Actual Cost.	Cash Deposits.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	
5% LOANS SINKING FUND DEPOSIT ACCOUNT—				
5% Municipal Debentures.	36,47,500 0 0	36,47,500 0 0		
4% Do. do. ...	30,72,000 0 0	30,72,000 0 0		
4% Bombay Improvement Trust Debentures ...	9,76,500 0 0	9,76,500 0 0		
4% Bombay Port Trust ...	2,20,500 0 0	2,20,500 0 0		
4% Sterling B. I. T. Bonds for £ 25,000... ..	3,75,000 0 0	3,75,000 0 0		
4% Government Paper of the Conversion Loan of 1916-17	13,500 0 0	13,500 0 0		
Total ...	*83,05,000 0 0	*83,05,000 0 0	.188 8 2	83,05,188 8 2
4% LOANS SINKING FUND DEPOSIT ACCOUNT (3½% BASIS.)—				
4½% Municipal Debentures.	31,75,500 0 0	31,75,316 6 9		
4% Bombay Improvement Trust Debentures ...	23,54,000 0 0	23,54,051 11 3		
4% Bombay Port Trust ...	1,32,500 0 0	1,32,500 0 0		
4% Government Paper of the Conversion Loan of 1916-17	8,46,000 0 0	8,46,000 0 0		
3½% Government Paper...	11,76,800 0 0	11,76,800 0 0		
Total ...	76,84,800 0 0	76,84,668 2 0	44 6 4	76,84,712 8 4
Sinking Fund carried forward Rs.				1,59,89,900 11 6
Carried over Rs. ...				8,62,52,944 0 5

Appendix

CAPITAL FUND BALANCE

	Rs.	a.	p.		Rs.	a.	p.
Brought over Rs.	.....				7,42,86,994	7	9
Bombay Improvement Trust.—							
Book Value of Municipal Land at Agripada Transferred...	.....				17,15,289	5	11
					<u>7,59,52,283</u>	13	8
Surplus—							
CAPITAL ASSETS AT ORIGINAL COST OVER LIABILITIES :—							
Sinking Funds on Loans	1,80,81,729	8	1				
Loans repaid, etc.	81,61,604	10	6				
Unbooked Property	45,37,835	11	11				
Contributions from Special Funds	8,31,231	0	3				
" " G. I. P. Ry.	3,74,000	0	0				
" " Port Trust...	1,56,500	0	0				
" " Government for Schools...	2,30,000	0	0				
" " Water Mains Renewal Fund	2,11,579	9	9				
Premia on Loans	2,93,848	11	11				
Total Rs.	3,28,78,329	4	5				
Deduct—							
Plague Loan	20,00,000	0	0				
Assets Written off	2,92,469	15	0				
Total Rs.	3,05,85,859	5	5				
	10,65,38,143	3	8				

W. E. WAITE,
Chief Accountant.

No. 6—continued.

SHEET AS AT 31ST MARCH 1917.

	Brought over Rs. ...			Rs. a. p.	Rs. a. p.
	Sinking Fund brought over Rs. ...			1,59,89,900 11 6	8,62,52,944 0 5
	Face value.	Actual Cost.	Cash Deposit.		
4 % LOANS SINKING FUND DEPOSIT ACCOUNT (3 % BASIS)—					
4 % Government Paper of the Conversion Loan of 1916-17 ...	5,00,000 0 0	5,00,000 0 0			
3½ % Government Paper.	1,30,000 0 0	1,30,000 0 0			
4 % Bombay Improvement Trust Debentures ...	1,03,000 0 0	1,03,000 0 0			
4 % Municipal Debentures	8,25,500 0 0	8,25,500 0 0			
4 % Bombay Port Trust Debentures ...	1,99,000 0 0	1,99,000 0 0			
Total ...	17,57,500 0 0	17,57,500 0 0	59 0 7	17,57,559 0 7	
3½ % LOANS SINKING FUND DEPOSIT ACCOUNT—					
4 % Municipal Debentures.	74,000 0 0	74,000 0 0			
4 % Bombay Improvement Trust Debentures ...	41,500 0 0	41,500 0 0			
3½ % Government Paper...	2,21,300 0 0	2,18,501 9 0			
Total ...	†† 3,36,800 0 0	3,34,001 9 0	268 3 0	3,34,269 12 0	1,80,81,729 8 1 ^(a)
SURPLUS LOAN FUNDS—					
Cash on deposit and current Accounts with Banks ...				†22,03,469 10 7	†22,03,469 10 7
Total Rs. ...					10,65,38,143 3 1

† Of this Rs. 54,273-15-11 belong to Water Works Account.

(a) For face and market value of each type of security held in the Sinking Funds please see Appendix No. 6A attached.

P. W. MONIE,
Municipal Commissioner.

Appendix No. 6A.

Comparison of Face, Purchase and Market Values at 31st March 1917 of the different Securities held in the Sinking Funds.

N. B.—Special attention is invited to para. 43 of Chief Accountant's Report.

Name of Fund.	Particulars of Securities.	Face value.	Purchase rate.	Actual cost at Purchase rate.	Market rates.	Value at Market rates.
5 per cent. Loans Sinking Fund Deposit Account.	5 per cent. Municipal Debentures.	Rs. 36,47,500	Par	Rs. a. p. 36,47,500 0 0	Par	Rs. a. p. 36,47,500 0 0
	4 per cent. Municipal Debentures.	30,72,000	"	30,72,000 0 0	82%	35,00,580 0 0
	4 per cent. Bombay Improvement Trust Debentures.	9,76,500	"	9,76,500 0 0		
	4 per cent. Bombay Port Trust...	2,20,500	"	2,20,500 0 0		
	4 per cent. Sterling Bombay Improvement Trust Bonds for Rs. 25,000.	3,75,000	"	3,75,000 0 0	73%	2,73,750 0 0
	4 per cent. Government Paper of the Conversion Loan of 1916-17.	13,500	"	13,500 0 0	86%	11,610 0 0
	Total Rs. ...	83,05,000		83,05,000 0 0		74,33,440 0 0
4 per cent. Loans Sinking Fund Deposit Account (3½ per cent. Basis).	4 per cent. Municipal Debentures.	30,98,000	Par	30,98,000 0 0	82%	26,03,910 0 0
	Do. ...	500	102 per cent.	510 0 0		
	Do. ...	7,500	101½ "	7,631 4 0		
	Do. ...	500	99 "	495 0 0		
	Do. ...	500	98½ "	493 12 0		
	Do. ...	4,500	98 "	4,410 0 0		
	Do. ...	5,000	97½ "	4,862 8 0		
	Do. ...	3,000	97 "	2,910 0 0		
	Proportionate value ...	56,000		56,003 14 9		
		31,75,500		31,75,316 6 9		
	4 per cent. Bombay Improvement Trust Debentures.	1,49,500	101½ per cent.	1,51,742 8 0		
		14,01,500	Par	14,01,500 0 0		
		3,00,000	99½ per cent.	2,98,500 0 0		
		14,500	95 "	13,775 0 0		
	Proportionate value ...	4,88,500		4,88,534 3 3		
		23,54,000		23,54,051 11 3		
	4 per cent. Bombay Port Trust...	1,32,500	Par	1,32,500 0 0	82%	1,08,650 0 0
	4 per cent. Government Paper of the Conversion Loan of 1916-17.	8,46,000	"	8,46,000 0 0	86%	7,27,560 0 0
	3½ per cent. Government Paper.	11,76,800	"	11,76,800 0 0	67%	7,88,456 0 0
	Total Rs. ...	76,84,800		76,84,668 2 0		61,58,856 0 0
	Carried over Rs. ...	1,59,89,800		1,59,89,668 2 0		1,35,92,296 0 0

Appendix No. 6A—concluded.

Name of Fund.	Particulars of Securities.	Face value.	Purchase rate.	Actual cost at Purchase rate.	Market rates.	Value at Market rates.
	Brought forward ...	Rs. 1,59,89,800		Bs. a. p. 1,59,89,668 2 0		Rs. a. p. 1,35,92,296 0 0
4 per cent. Loans Sinking Fund Deposit Account (3 per cent. Basis).	4 per cent. Government Paper of the conversion Loan of 1916-17.	5,00,000	Par	5,00,000 0 0	86%	4,30,000 0 0
	3½ per cent. Government Paper.	1,30,000	"	1,30,000 0 0	67%	87,100 0 0
	4 per cent. Bombay Improvement Trust Debentures.	1,03,000	"	1,03,000 0 0	82%	9,24,550 0 0
	4 per cent. Municipal Debentures.	8,25,500	"	8,25,500 0 0		
	4 per cent. Bombay Port Trust Debentures.	1,99,000	"	1,99,000 0 0		
	Total Rs. ...	17,57,500		17,57,500 0 0		14,41,650 0 0
3½ per cent. Loans Sinking Fund Deposit Account.	4 per cent. Municipal Debentures.	74,000	Par	74,000 0 0	82%	60,680 0 0
	4 per cent. Bombay Improvement Trust Debentures	41,500	"	41,500 0 0	82%	34,030 0 0
	3½ per cent. Government Paper.	1,00,000	"	1,00,000 0 0		
	Do. ...	500	101¼ per cent.	508 7 0		
	Do. ...	500	101½ "	505 10 0		
	Do. ...	3,600	101 "	3,636 0 0		
	Do. ...	11,500	100½ "	11,500 10 0		
	Do. ...	800	99¼ "	794 0 0		
	Do. ...	500	99½ "	495 10 0		
	Do. ...	600	98¾ "	590 10 0		
	Do. ...	4,500	98½ "	4,426 14 0		
	Do. ...	12,100	98¼ "	11,888 4 0		
	Do. ...	29,800	98⅓ "	28,768 15 0		
	Do. ...	600	98½ "	588 12 0		
	Do. ...	13,700	97¾ "	13,319 12 0		
	Do. ...	700	97⅞ "	682 15 0		
	Do. ...	1,100	97½ "	1,072 8 0		
	Do. ...	500	96¾ "	484 6 0		
	Do. ...	12,000	96½ "	11,580 0 0		
	Do. ...	12,700	96⅝ "	12,231 11 0		
	Do. ...	700	96⅞ "	672 7 0		
	Do. ...	500	96 "	480 0 0		
	Do. ...	500	95⅓ "	479 1 0		
	Do. ...	500	95⅓ "	478 7 0		
	Do. ...	700	95½ "	667 10 0		
	Do. ...	1,200	94¾ "	1,137 0 0		
	Do. ...	12,000	94½ "	11,340 0 0		
		2,21,300		2,18,501 9 0	67%	1,48,271 0 0
	Total Rs. ...	3,36,800		3,34,001 9 0		2,42,981 0 0
	Grand Total Rs. ...	10,84,100		1,80,81,169 11 0		1,52,76,927 0 0

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

Appendix

STATEMENT showing (1) the various Municipal Loans and their Amounts, (2) the Expenditure meet the cost of New Works, &c., and (4) Invested

Serial No.	NAME AND DATE OF LOAN.	Amount raised.	Transferred to meet the cost of New Works provided out of savings.	Net Amount available for expenditure.	A--Buildings, lands and Sanitary Structures.		B--Roads and Over-Bridges.
					5	6	
	1	2	3	4	5	6	
		Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Drainage Loan of 1878	26,94,000	—24,719 6 0	26,69,280 10 0	....	....	
2	Surface Drainage Works	6,00,000	....	6,00,000 0 0	....	....	
3	Sanitary Works Loan (44 lakhs)	44,00,000	—77,275 8 8	43,22,724 7 4	87,110 9 6	1,41,500 1 2	
4	Tansa Water Works (147 lakhs)	1,47,00,000	—2,616 9 0	1,46,96,383 7 0	....	....	
5	Sanitary Works Loan of 1887-88	7,00,000	—95,421 10 8	6,04,578 5 4	....	....	
6	Sewerage Works and Water Supply Improvement (12 lakhs)	12,00,000	—2,18,531 7 10	9,81,468 8 2	....	....	
7	Markets and other Miscellaneous Works (Rs. 10,08,500) ..	10,08,500	—2,57,299 4 8	7,51,200 11 4	4,86,906 2 8	89,683 6 8	
8	House Sullage Water Connections, Agripada	2,48,000	—14,466 3 2	2,33,533 12 10	....	....	
9	Various Sanitary Works (35 lakhs)	35,00,000	—3,83,724 7 4	31,16,275 8 8	5,85,193 12 2	14,91,224 2 9	
10	New Municipal Office Building (8 lakhs)	8,00,000	—66,939 13 0	7,33,060 3 0	7,33,060 3 0	....	
11	Fire Brigade Quarters and Stations (4½ lakhs)	4,50,000	—46,679 9 11	4,03,320 6 1	4,03,320 6 1	....	
12	Drainage Water Works, Roads and other works (23½ lakhs)	23,25,000	—2,77,249 3 7	20,47,750 12 5	....	1,47,734 9 4	
13	Sewerage, Wari Bunder, &c., Roads, Burial-ground and certain Water Works (15½ lakhs)	15,75,000	—2,09,684 2 5	12,65,315 13 7	....	13,48,825 6 10	
14	Sewerage Water and other Sanitary Works (25 lakhs) ..	25,00,000	—37,383 11 0	24,62,616 5 0	....	....	
15	Plague Charges (20 lakhs)	20,00,000	....	20,00,000 0 0	....	....	
16	Sewerage, Roads and other Sanitary Works (19½ lakhs)	19,25,000	—2,25,808 11 0	16,99,191 5 0	....	....	
17	Sewerage, and Water Works (24½ lakhs)	24,75,000	—3,91,480 9 10	20,83,519 6 2	....	....	
18	Certain Water Works (17½ lakhs)	12,75,000	—1,46,596 6 8	11,28,403 15 4	....	....	
19	Sewerage Works (2nd 24½ lakhs)	24,75,000	—2,39,904 4 8	22,35,095 11 4	....	....	
20	Construction of Quarters for Halalcores and Bigaries (13½ lakhs)	13,50,000	—69,791 7 7	12,80,208 8 5	11,50,467 13 10	....	
21	Street Improvements (15 lakhs)	15,00,000	....	15,00,000 0 0	....	15,00,000 0 0	
22	Acquisition of sites for the construction of various Over-bridges in the City (30 lakhs)	30,00,000	....	30,00,000 0 0	....	20,85,467 14 0	
23	Miscellaneous Works (55 lakhs)	55,00,000	—2,36,702 2 1	51,63,297 13 11	8,60,204 15 8	1,73,261 4 8	
24	Tansa Reduplication and Auxiliary Works (70 lakhs) ..	70,00,000	....	70,00,000 0 0	....	....	
25	Street Improvements (20 lakhs)	20,00,000	....	20,00,000 0 0	....	17,51,675 14 3	
26	Drainage, Water, Roads and Mis. Works (43 lakhs) ..	43,00,000	—2,77,687 8 10	40,22,312 7 2	4,57,165 6 2	2,31,187 10 7	
		(a) 7,15,00,500	—35,00,461 13 11	6,80,00,038 2 1	47,63,419 5 1	78,60,560 6 3	
27	Works executed out of Savings on Loans .. .. .	....	....	35,00,461 13 11	4,88,362 7 9	4,81,933 0 1	
	Total Rs. ..	....	....	7,15,00,500 0 0	52,51,781 12 10	84,42,493 6 4	

* Including Rs. 1,94,081-18-8 written off in 1902-03 on account of properties not then existing

† Excluding Rs. 7,34,326-5-8 paid out of the Invested Fund.

‡ Excluding Rs. 1,56,500-0-0 contributed by the Port Trust.

†† Including Rs. 98,438-1-9 written off in 1902-03 on account of properties not then existing.

§ Including Rs. 20,00,000 paid on account of Plague charges.

¶ Excluding Rs. 2,40,000 paid out of the Premia received on the Loan.

W. E. WAITE,
Chief Accountant.

No. 7.

incurred against each of them, (3) the Amounts withdrawn temporarily from their unutilized Balances to Balances of the Loans on 31st March 1917.

EXPENDITURE ON WORKS UPTO 31ST MARCH 1917.						Balance un- expended on 1st April 1917.	Amount ad- vanced to meet the cost of sanctioned New Works, for which loans are to be raised.	Balances invested.
C—Drainage.	D—Water Works.	E—Cemeteries (Burning and Burial grounds).	F—Disposal of Town Sweepings.	G—Miscellane- ous.	Total Amount expended on works upto 31st March 1917.			
7	8	9	10	11	12	13	14	15
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
*16,52,449 12 9	0,16,880 13 3	....	....	....	26,69,280 10 0	....	....	....
6,00,000 0 0	....	....	....	....	6,00,000 0 0	....	....	....
††21,98,166 0 8	18,95,947 12 0	....	....	....	43,22,721 7 4	....	....	....
....	1,46,95,508 15 0	....	..	....	1,46,95,508 15 0	879 8 0	879 8 0	....
62,387 0 0	1,42,241 5 4	....	....	....	6,04,578 5 4	....	....	....
9,01,437 3 2	80,031 5 0	....	....	....	9,81,468 8 2	....	....	....
55,396 14 10	1,16,214 3 2	....	....	....	7,51,200 11 4	....	....	....
2,33,533 12 10	....	....	....	....	2,33,533 12 10	....	....	....
18,864 7 3	8,27,079 9 10	....	1,98,913 8 8	....	31,16,275 8 8	....	....	....
....	....	....	....	....	7,83,060 3 0	....	....	....
....	....	....	....	....	4,03,320 8 1	....	....	....
44,602 15 5	1,49,522 5 7	....	5,890 14 1	....	20,47,750 12 5	....	....	....
5,69,077 1 0	12,842 13 10	2,11,652 4 5	....	....	11,42,397 10 1	1,22,918 3 6	1,22,918 3 6	....
11,25,083 14 4	2,04,268 6 8	3,49,264 0 0	7,84,000 0 0	....	24,62,616 5 0	....	....	....
....	....	....	....	....	20,00,000 0 0	....	....	....
14,58,586 3 4	....	47,680 4 4	53,619 13 4	3,436 8 6	15,58,302 13 6	1,40,868 7 8	1,40,868 7 8	....
17,16,596 0 7	2,54,554 8 11	..	....	....	19,71,150 9 6	1,12,368 12 5	1,12,368 12 8	....
....	11,26,457 9 4	..	....	....	11,26,457 9 4	1,946 6 0	1,946 6 0	....
18,47,307 6 3	....	....	....	....	18,47,307 6 3	3,87,788 5 1	3,87,788 5 1	....
....	....	....	....	....	11,50,457 13 10	1,29,750 10 7	1,29,750 10 7	....
....	....	....	....	....	15,00,000 0 0	....	....	....
....	....	....	....	....	20,86,467 14 0	9,14,532 2 0	9,14,532 2 0	....
31,39,261 12 6	8,70,044 7 3	93,834 1 6	....	53,857 15 9	46,95,464 9 4	4,68,838 4 7	28,594 6 0	4,39,788 14 7
....	70,00,000 0 0	....	....	....	70,00,000 0 0	....	....	....
....	....	....	....	....	17,51,675 14 3	2,48,324 1 9	....	2,48,324 1 9
17,93,440 5 11	97,813 8 6	....	....	1,52,949 11 1	27,32,056 5 3	12,90,256 1 11	....	12,90,256 1 11
1,95,09,120 14 10	2,79,88,352 6 8	7,02,430 10 3	10,42,424 4 1	2,15,244 3 4	6,41,82,052 2 6	38,17,985 15 7	18,39,666 13 4	18,78,919 2 3
12,85,342 15 10	1,38,107 13 10	23,278 9 6	38,684 2 0	21,602 4 7	22,76,311 5 7	2,25,150 8 4	....	2,25,150 8 4
2,07,94,463 14 8	2,89,21,960 4 6	7,25,709 3 9	10,61,108 6 1	2,36,846 7 11	6,74,57,363 8 1	40,43,136 7 11	**18,39,666 13 4	22,03,469 10 7
Add—Amount of Advances in column 14					13,39,666 13 4			
Grand Total					Rs. 6,92,97,080 5 5	(b)		
(a) Amount of Loans raised						Rs. 7,15,00,500 0 0		
(b) Amount expended..						6,92,97,080 5 5		
Invested Balance (vide Appendix 6, page 67)						22,08,469 10 7		

** Of this Rs. 1,30,554-11-4 belong to the Water Works Account.

P. W. MONIE,
Municipal Commissioner.

Appendix No. 8.

Block Account showing details of Capital Expenditure up to 31st March 1917.

	Capital Expenditure up to 31st March 1916.	Expended during the year.	Total Capital Expenditure up to 31st March 1917.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—BUILDINGS, LANDS AND SANITARY STRUCTURES—				
MARKETS AND SLAUGHTER HOUSES—				
Bandra Slaughter Houses	2,34,297 12 8	.....	2,34,297 12 8	
Null Bazar Market	1,50,770 1 7	.....	1,50,770 1 7	
Fort Market	22,066 7 11	.....	22,066 7 11	
Arthur Crawford Market	11,39,410 11 6	.....	11,39,410 11 6	
Market at Colaba	94,398 15 11	.....	* 94,398 15 11	
Extension of Erskine Road Market ...	4,31,666 11 11	.....	† 4,31,666 11 11	
Extension of the Arthur Crawford Mutton Market	42,754 2 9	.....	42,754 2 9	
Bhuleshwar Market Extension	3,22,817 1 11	.....	3,22,817 1 11	
Labourers' Quarters in connection with the Arthur Crawford Market ...	9,518 14 3	.....	9,518 14 3	
Foras Road Market	40,499 14 11	.....	40,499 14 11	
Construction of shops on the western and southern sites at the Arthur Crawford Markets, Hornby Road ...	4,822 7 10	... ..	4,822 7 10	
Renewing the two blocks of the Butchers' Chawl at the Bandra Slaughter Houses	22,020 5 4	.....	22,020 5 4	
Portion of cost of site for the Colaba Market	28,060 0 0	... ..	28,060 0 0	
Currey Road Market	15,252 5 10	.....	15,252 5 10	
Market at Chowpati	63 0 0	... ..	63 0 0	
Market at Elphinstone Road	15,242 13 8	.....	15,242 13 8	
Constructing a Chawl of 52 rooms at the Bandra Slaughter Houses ...	31,240 0 8	.....	31,240 0 8	
Market at Kamatipura	50,644 11 2	.....	50,644 11 2	
	26,55,541 11 10	.....	26,55,541 11 10	
FIRE BRIGADE—				
Land and Buildings for Fire Brigade ...	4,03,320 6 1	.....	4,03,320 6 1	
Construction of additional quarters for the Fire Brigade staff at Byculla Fire Brigade Station	30,995 8 8	... ..	30,995 8 8	
Construction of an Engine House and Foreman's quarters at the Sankli Tank Fire Brigade Station	26,552 13 0	.....	26,552 13 0	
Constructing additional rooms and adding a storey over several Fire Brigade Stations to provide accommodation for additional staff ...	12,487 5 7	... ..	12,487 5 7	
Construction of a Fire Brigade Station at Elphinstone Bridge Road	62,608 13 5	.....	62,608 13 5	
Providing living and other accommodation at the Gowalia Tank Road, Babula Tank, Chinchpokli and Sankli Tank Fire Brigade Stations ...	12,527 2 2	... ..	12,527 2 2	
Constructing Lascars' Quarters, &c., at Gowalia Tank Fire Brigade Station ...	8,983 1 10	.....	8,983 1 10	
Constructing new quarters for an Engineer and ten Lascars at Sankli Tank Fire Brigade Station	13,537 13 11	.....	13,537 13 11	
Construction of a cook-room in connection with the existing Engineer's Quarters and two nahanis in connection with the Lascars' quarters at Sankli Tank Fire Brigade Station ...	1,382 10 3	.....	1,382 10 3	
Construction of an additional storey over the Bhuleshwar Fire Brigade Station	6,902 12 3	.....	6,902 12 3	
Acquisition of land for a new Fire Brigade Station for the Fort District ...	95,600 0 0	.....	95,600 0 0	
	6,74,848 7 2	.....	6,74,848 7 2	
WORKSHOPS—				
Workshop and Store shed	1,49,079 7 1	... ..	1,49,079 7 1	
Construction of new Municipal Workshops at Foras Road	3,66,314 10 8	90,730 14 4	4,57,045 8 7	
	5,15,394 1 4	90,780 14 4	6,06,124 15 8	
A.—Buildings, Lands and Sanitary Structures—carried over	Rs. ...	90,730 14 4	39,36,515 2 8	

* Inclusive of Rs. 21,940 paid out of the premia received on the loan, and Rs. 28,060 paid out of savings on different loans.

† Inclusive of Rs. 31,908-11-11 paid out of the premia received on the loan.

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—Buildings, Lands and Sanitary Structures—brought forward ... Rs. ...	38,45,784 4 4	90,730 14 4	39,36,515 2 8	
STABLES, CHAWLS AND QUARTERS (HEALTH DEPARTMENT)—				
Enlargement of Dhobi lines at Mahaluxmi ...	28,499 12 3	.....	28,499 12 3	
Chawl for Gowlies working at the Agripada Milch-Cattle stables ...	6,129 13 6	.....	6,129 13 6	
Health Department stables at Bori Bunder ...	43,677 13 3	.....	43,677 13 3	
Establishment charges for the above three works ...	8,808 2 6	.....	8,808 2 6	
Health Department Bullock stables and Quarters for scavengers ...	1,23,897 4 11	.....	1,23,897 4 11	
Chawl for halalkhores in Cursetji Suklaji Street ...	88,460 8 2	.....	88,460 8 2	
Construction of chawls, &c., for halalkhores at Valpakhadi (Mazagon) ...	2,31,200 4 1	278 2 8	2,31,478 6 9	
Construction of semi-permanent huts for biggaries at Arthur Road ...	28,379 0 10	.....	28,379 0 10	
Construction of chawls for halalkhores, &c., at Cochin Street, Fort ...	56,554 5 6	.....	56,554 5 6	
Construction of stables for the Health Department on the Grant Road Hospital site ...	47,334 4 7	.....	47,334 4 7	
Construction of the Sankli Tank Bullock Hospital with residential quarters for Inspector and Shalotri ...	1,34,428 6 6	.....	1,34,428 6 6	
Construction of a stable for bullocks of Night Branch and an office at Arthur Road ...	64,655 2 4	.....	64,655 2 4	
Construction of stables and chawls for B Ward at Jail Road, North ...	1,65,522 11 4	.....	1,65,522 11 4	
Construction of stables and chawls for D Ward bullocks and biggaries at Annesley Road ...	1,36,435 10 3	1,563 0 0	1,37,998 10 3	
Construction of Chawls for Biggaries at Arthur Road ...	1,22,312 3 9	.....	1,22,312 3 9	
Construction of a stable for E Ward, West of Kamatipura ...	62,232 15 4	.....	62,232 15 4	
Construction of semi-permanent huts for halalkhores at Tardeo Flats ...	99,406 7 9	129 7 7	99,535 15 4	
Construction of a stable for bullocks at Mahim ...	81 9 0	.....	81 9 0	
Acquisition of land and properties at Jail Road, North, for the construction of stables and chawls for the Health Department ...	1,92,581 0 0	.....	1,92,581 0 0	
Construction of two additional chawls for biggaries at Chembur ...	17,122 12 10	.....	17,122 12 10	
Health Department stables in F and G Wards ...	68,120 8 2	.....	68,120 8 2	
Health Department biggaries' chawl at Bori Bunder ...	50,058 0 7	.....	50,058 0 7	
Acquisition of land at Colaba as a site for quarters for Halalkhores ...	4,312 15 5	.....	4,312 15 5	
Construction of semi-permanent quarters for halalkhores on the Foras Tank site ...	2,229 10 1	33,437 15 0	35,667 9 1	
Construction of chawls for the Health Department biggaries of F Ward ...	.....	65,145 2 7	65,145 2 7	
Construction of chawls for halalkhores and biggaries at Valpakhady ...	.....	10,962 1 8	10,962 1 8	
Chawls for Health Department biggaries at Paltan Road ...	.....	1,726 7 3	1,726 7 3	
	17,82,436 6 11	1,13,242 4 9	18,95,678 11 8	
SCHOOL BUILDINGS—				
Construction of buildings for Primary Schools ...	4,37,061 3 3	60,117 5 3	† 4,97,178 8 6	
MUNICIPAL OFFICE BUILDINGS—				
Municipal Office Buildings ...	14,67,386 11 3	.....	† 14,67,386 11 3	
A.—Buildings, Lands and Sanitary Structures—carried over ... Rs. ...	75,32,668 9 9	2,64,090 8 4	77,96,759 2 1	

† Inclusive of Rs. 2,30,000 paid by Government as part contribution, Rs. 2,00,000 paid upto 1915-16 and Rs. 30,000 during 1916-17.

† Inclusive of Rs. 7,34,326-8-3 paid out of the Invested Fund.

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—Buildings, Lands and Sanitary Structures—brought forward .. Rs. ...	75,32,668 9 9	2,64,090 8 4	77,96,759 2 1	
MISCELLANEOUS STRUCTURES—				
Girgaum Police Court (Share of) ...	34,000 0 0	.....	34,000 0 0	
Building a new office in Sankli Street for the use of the Assessment Department, E Ward Office, and constructing A Ward office, chowkidar's quarters and Store Room for the Streets and Buildings branch, E Ward, in Sankli Street ...	22,871 7 10	.....	22,871 7 10	
Building a new office at Dadar for the use of the Assessment Department, F and G Ward offices, and converting the existing ward office into a godown and providing latrines for the workmen ...	13,419 6 9	.....	13,419 6 9	
Construction of A Ward offices for the different branches of the Engineer's Department at Mint Road ...	20,856 6 6	.....	20,856 6 6	
Purchase of about 4,080 square yards of land at the junction of Bapty Road and Falkland Road belonging to the Tramway authorities... ..	1,22,728 6 0	Cr. 5,693 7 6	1,17,034 14 6	
Making alterations in the three permanent wards of the Arthur Road Hospital and in gas and other lighting arrangements in the compound, wards, &c., in the Arthur Road Hospital ...	21,955 10 9	.....	21,955 10 9	
Construction of 25 bathing places in the city ...	27,747 6 2	.....	27,747 6 2	
Construction of Incinerators for Refuse destruction ...	71 7 7	.....	71 7 7	
Construction of new ward offices at Babula Tank for the Assessment and Health Departments ...	48 6 0	.....	48 6 0	
Latrines at Colaba ...	20,290 13 10	.....	20,290 13 10	
Providing latrines and urinals at different places ...	58,900 15 6	531 10 9	59,432 10 3	
Providing accommodation, &c., for the General Stores... ..	38,253 5 5	... ..	38,253 5 5	
Providing wooden racks in Block No. 2 of the Central Stores building at Chinchpokli ...	2,495 5 4	.....	2,495 5 4	
Constructing office quarters and store-room for Streets and Buildings Branch in G Ward at DeLisle Road on the site of Foras tank ...	19,391 14 9	... ..	19,391 14 9	
Construction of 11 urinals on Port Trust ground near the Docks ...	6,502 13 2	.....	6,502 13 2	
Acquisition of a plot of land at Ormiston Road from the Bombay Electric Supply and Tramways Company, Limited, for a Metal Depot ...	1,49,492 8 0	.....	1,49,492 8 0	
Acquisition of land for a stone depot on Golanji Hill ...	71,084 1 7	.....	71,084 1 7	
Providing bungalows for Engineers and quarters for servants and Engine Drivers at Love Grove Pumping Station ...	1,437 8 0	7,715 6 0	9,152 14 0	
Acquisition of land and buildings at Worli Hill for the purpose of quarters for the Love Grove Station Engineering staff and filling in the vacant Municipal land required for Central Stores, Infectious Diseases Hospital, &c., out of the materials therefrom ...	.....	1,78,852 0 0	1,78,852 0 0	
	6,31,547 15 2	1,81,405 9 3	8,12,953 8 5	
A.—Buildings, Lands and Sanitary Structures—Total Rs. ...	81,64,216 8 11	4,45,496 1 7	86,09,712 10 6	
Carried over Rs. ...	81,64,216 8 11	4,45,496 1 7	86,09,712 10 6	86,09,712 10 6

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs...	81,64,216 8 11	4,45,496 1 7	86,09,712 10 6	86,09,712 10 6
B—ROADS AND OVERBRIDGES—				
OVERBRIDGES—				
Overbridges	1,97,563 0 1	.....	1,97,563 0 1	
Falkland Road Bridge	15,082 9 4	.....	15,082 9 4	
Wari Bunder Bridge	1,32,652 0 0	.....	1,32,652 0 0	
Overbridge at Elphinstone Road, B. B. & G. I. P. Railways	2,57,163 14 1	.....	2,57,163 14 1	
Overbridge at Arthur Road, G. I. P. Railway... ..	1,96,754 4 7	.....	1,96,754 4 7	
Overbridge at Currey Road, G. I. P. Railway... ..	5,37,445 14 2	990 13 11	5,38,436 12 1	
Overbridge at Clerk Road, G. I. P. Railway... ..	2,91,285 15 8	Cr. 5,330 12 10	2,86,055 2 7	
Overbridge at Clerk Road, B. B. & C. I. Railway	67,329 5 0	3,129 6 0	70,458 11 0	
Overbridge at DeLisle Road	6,75,311 0 3	Cr. 3,552 0 0	6,71,759 0 3	
Establishment, &c., charges for the above six overbridges... ..	58,840 14 11	5,999 2 6	64,840 1 5	
Nesbit Road Bridge (portion of cost)... ..	49,844 8 0	.....	49,844 8 0	
	24,79,373 5 10	1,236 9 7	24,80,609 15 5	
CONSTRUCTION OF ROADS—				
Foras Road	1,12,418 14 10	.....	1,12,418 14 10	
Nowroji Hill Road	57,913 3 0	.....	57,913 3 0	
Road from Bellasis Road across Old Race Course (including Establish- ment charges)	1,41,500 1 2	.....	1,41,500 1 2	
Cross Road at Mahaluxmi Station from Clerk Road to Haines Road... ..	19,594 4 8	.....	19,594 4 8	
Road through Nowroji Hill from Elphinstone Bridge to Dongri Street Roads and Streets in Agripada and elsewhere	70,089 2 0	.....	70,089 2 0	
New Road from Jakaria Bunder Road to Sewri Cemetery	14,67,006 2 10	.....	14,67,006 2 10	
Wari Bunder Road	24,217 15 11	.....	24,217 15 11	
Victoria Road Extension	4,74,317 4 6	112 8 0	† 4,74,429 12 6	
Construction of a new road through Cavel from Girgaum Road to Kalba- devi Road upto the Church of Lady of Health	30,895 10 4	.....	30,895 10 4	
Widening of Cruickshank Road and improvement of the corner of Cruick- shank and Elphinstone Roads	1,32,943 9 11	.....	1,32,943 9 11	
Construction of a Road from the B. B. & C. I. Railway Matunga Station westward to Mahim including storm- water drains	40,317 10 9	.....	40,317 10 9	
Construction of a 60 feet road along Tulsi Pipe Line from DeLisle Road to Dadar Road including storm-water drains, and other roads	1,85,287 5 3	1,529 7 6	1,86,816 12 2	
Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	5,690 1 8	736 3 2	6,426 4 10	
Providing and fixing new pattern hy- drants for watering and Fire Brigade purposes	37,944 9 0	.....	37,944 9 0	
Diversion of Arthur Road over the masonry culvert	50,000 0 0	.....	50,000 0 0	
Construction of a road running east- wards from Lady Hardinge Road to the G. I. P. Railway new level crossing at Matunga and providing storm-water drain thereat	16,266 11 1	.....	16,266 11 1	
Widening and improving Cumballa Hotel Lane and Gowalia Tank Road (Municipal contribution)	13,425 15 7	46,988 1 1	60,414 0 8	
Acquisition of land at different places as sites for new roads... ..	23,948 5 4	6,713 4 3	30,661 9 7	
	9,564 15 0	.....	9,564 15 0	
Construction of Roads—Carried over Rs.	29,13,341 14 10	56,079 8 0	29,69,421 6 10	
B.—Roads and Overbridges do. Rs.	24,79,373 5 10	1,236 9 7	24,80,609 15 5	
Carried over Rs.	81,64,216 8 11	4,45,496 1 7	86,09,712 10 6	86,09,712 10 6

† Inclusive of Rs. 1,56,500 contributed by the Port Trust.

Appendix No. 3—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure up to 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	81,64,216 8 11	4,45,496 1 7	86,09,712 10 6	86,09,712 10 6
B—Roads and Overbridges—Brought forward Rs. ...	24,79,373 5 10	1,236 9 7	24,80,609 15 5	
Construction of Roads, brought forward Rs.	29,13,341 14 10	56,079 8 0	29,69,421 6 10	
Acquisition of land at Dadar ...	151 0 0	.....	151 0 0	
Acquisition of 337-11 square yards of land from Mr. Sharifbhai Thavar for the construction of the road from Haines Road to Ripon Road...	2,205 14 7	.....	2,205 14 7	
Acquisition of land at Maruti Lane ...	5,433 0 0	.....	5,433 0 0	
Acquisition of land at Gola Lane ...	7,038 7 0	.....	7,038 7 0	
Acquisition of 242-22 square yards near the Parcel Station of the B. B. & C. I. Railway ...	1,695 8 8	.....	1,695 8 8	
Acquisition of land at King Lane ...	13,439 8 3	.....	13,439 8 3	
Do. at Fergusson Road	1,301 7 7	.....	1,301 7 7	
Acquisition of land at Hamalwadi ...	58,139 13 7	.....	58,139 13 7	
Do. at Clerk Road ...	5,330 12 10	.....	5,330 12 10	
Do. at Piru Lane ...	64,508 3 11	.....	64,508 3 11	
Do. at Goga Street ...	20,920 13 5	.....	20,920 13 5	
Do. at the junction of Gun Carriage Street and Thomas Street ...	4,357 0 0	.....	4,357 0 0	
Acquisition of land at Nishanpada Road ...	610 15 3	.....	610 15 3	
Acquisition of land at Chunam Kiln Cross Lane ...	573 13 5	.....	573 13 5	
Acquisition of land at Old Nagpada Street ...	1,817 3 11	.....	1,817 3 11	
Widening and extending Nesbit Road ..	27,817 10 7	400 0 0	28,217 10 7	
Widening of Worli Road from its junction with Haines and Fergusson Roads to the Worli Channel ...	68,994 8 1	12,242 1 9	81,236 9 10	
Construction of a road from Mount Road through Rose Cottage Lane to Matharpakhadi ...	32,470 14 4	13,149 10 10	45,620 9 2	
	32,24,817 13 5	87,202 1 5	33,12,019 14 10	
STREET IMPROVEMENTS.				
Street Improvements in different places.	33,95,502 10 4	96,173 3 11	34,91,675 14 3	
Special Street Improvements ...	19,000 0 0	.....	19,000 0 0	
	34,14,502 10 4	96,173 3 11	35,10,675 14 3	
B—Roads and Overbridges—Total Rs.	91,18,693 13 7	1,84,611 14 11	93,03,305 12 6	93,03,305 12 6
C.—DRAINAGE WORKS—				
Fort Sewers ...	78,627 4 8	.....	78,627 4 8	
Kamatipura Drain ...	1,91,047 8 10	.....	1,91,047 8 10	
Drains in Fanaswadi and Agiary Lane.	1,852 12 3	.....	1,852 12 3	
Branch Sewers, Bellasis Road ...	7,102 6 1	.....	7,102 6 1	
Widening Love Grove Sluices ...	1,57,326 7 7	.....	1,57,326 7 7	
Culverts under the B. B. & C. I. Railway near Bellasis Road ...	1,791 0 8	.....	1,791 0 8	
Khetwadi Survey ...	5,599 10 0	.....	5,599 10 0	
Raising Level of Khetwadi Roads ...	28,355 0 1	.....	28,355 0 1	
Raising private compounds in Khetwadi ...	25,336 2 1	.....	25,336 2 1	
Three branch drains in Khetwadi and storm-water entrances ...	31,711 15 6	.....	31,711 15 6	
Intercepting drain in Tardeo District and storm-water entrances ...	1,69,851 10 4	.....	1,69,851 10 4	
Making connection between low-level sewers and new main drains...	2,610 8 10	.....	2,610 8 10	
Intercepting drain from Pydhoni to Bellasis Road and storm-water entrances ...	3,03,229 3 9	.....	3,03,229 3 9	
Enlarging old open main drain ...	71,318 13 5	.....	71,318 13 5	
Laying a new 24" main and removing old 24" Tuls main ...	74,226 14 0	.....	74,226 14 0	
C—Drainage Works—Carried over Rs.	11,49,993 6 1		11,49,993 6 1	
Carried over Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs.	1,72,82,910 6 6	6,80,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0
C—Drainage Works—Brought forward Rs.	11,49,993 6 1	.....	11,49,993 6 1	
Constructing storage reservoir on the Flats and raising levels of manholes and sewers	1,86,225 12 6	.....	1,86,225 12 6	
Establishment for Surface Drainage Works	1,21,413 0 0	.....	1,21,413 0 0	
Contingencies do. do.	63,627 6 11	.....	63,627 6 11	
Cleaning the Worli storm-water drain and widening the channels south of the Love Grove sluices	79,510 9 7	.....	79,510 9 7	
Main sewers	4,92,691 8 2	.....	4,92,691 8 2	
Pipe sewers	3,00,746 13 1	.....	3,00,746 13 1	
Outfall sewer	2,55,766 10 0	.....	2,55,766 10 0	
Kamatipura drainage	76,471 4 6	.....	76,471 4 6	
Clerk Road Ovoid sewer	39,259 5 11	.....	39,259 5 11	
Government Commission charges for drainage of 1878	5,211 15 9	.....	5,211 15 9	
Preliminary expenses in connection with the drainage of 1878	13,429 6 5	.....	13,429 6 5	
Departmental works in connection with the drainage of 1878	1,072 1 3	.....	1,072 1 3	
Compensation for land in connection with the drainage of 1878	18,831 11 1	.....	18,831 11 1	
Proportion of repairs to roads (opened for the works) in connection with the drainage of 1878	34,372 14 7	.....	34,372 14 7	
Miscellaneous charges in connection with the drainage of 1878	22,302 15 7	.....	22,302 15 7	
Establishment for works in connection with the drainage of 1878	1,45,000 0 0	.....	1,45,000 0 0	
Contingencies in connection with the drainage of 1878	51,167 7 9	.....	51,167 7 9	
Repairs to old Main Drain at Falkland Road	2,093 13 5	.....	2,093 13 5	
House connections without privy fit- tings	6,32,080 1 7	.....	6,32,080 1 7	
Shaft ventilators	44,947 0 6	.....	44,947 0 6	
Closing storm-water openings in Frere Road sewer	17,108 9 6	.....	17,108 9 6	
Queen's Road intercepting sewer	1,53,969 0 0	.....	1,53,969 0 0	
House connection survey	4,561 13 3	.....	4,561 13 3	
House connections, Kamatipura Drain- age	34,977 7 5	.....	34,977 7 5	
Pipe sewer from Clare Road along south portion of Haines Road and DeLisle Road	1,14,260 0 7	.....	1,14,260 0 7	
Pipe sewer from Parel Workshop to Clerk Road Ovoid sewer	65,793 9 11	.....	65,793 9 11	
Extension of Clerk Road Ovoid sewer to Parel Road	35,569 8 0	.....	35,569 8 0	
Ovoid sewer across the Old Race-course. Ovoid sewer from the Crawford Market down Hornby Road to Bazar Gate and thence to the Mint.	89,401 11 9	.....	89,401 11 9	
Establishment charges for sanitar- y works of 1885-1886	1,25,178 0 0	.....	1,25,178 0 0	
Adjustment of the extra expenditure incurred on the Queen's Road inter- cepting sewer	9,633 10 8	.....	9,633 10 8	
Fort Drainage	3,68,422 5 9	.....	3,68,422 5 9	
New Works at Love Grove Pumping Station	34,645 9 6	.....	34,645 9 6	
Construction of a side drain along Wari Bunder Road	4,934 0 1	.....	4,934 0 1	
Construction of a pipe sewer in certain lanes in Khetwadi	5,282 6 0	.....	5,282 6 0	
Establishment charges for sanitary works of 1887 to 1888	39,419 0 0	.....	39,419 0 0	
Queen's Road pipe sewer including con- tingencies	6,09,998 4 2	.....	6,09,998 4 2	
Queen's Road house connections	2,05,306 0 9	.....	2,05,306 0 9	
Establishment and contingencies for Queen's Road sewerage works	86,132 14 3	.....	86,132 14 3	
Extension of Parel Road storm-water drains from Bellasis Road to 3rds the length of Ripon Road	41,106 6 9	.....	41,106 6 9	
9" Pipe sewer along Bellasis Road, Foras Road and Gilder Street	17,290 8 1	.....	17,290 8 1	
C—Drainage Works—Carried over Rs....	58,58,953 0 3	.....	58,58,953 0 3	
Carried over Rs....	1,72,82,910 6 6	6,80,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,081 7 0
C—Drainage Works, brought forward Rs.	58,58,953 0 3	.....	58,58,953 0 3	
House sullage water connections at Agripada ...	2,33,533 12 10	.....	2,33,533 12 10	
Sewer flushing arrangements ...	13,864 7 3	.....	13,864 7 3	
Pumps and steam engine for the working of the Love Grove Pumping Station ...	4,63,345 8 6	.....	4,63,345 8 6	
Sewerage of Colaba ...	7,56,419 0 0	.....	7,56,419 0 0	
Sewerage of Umarchadi District ...	3,53,786 5 9	.....	3,53,786 5 9	
Storm-water drains in Moreland, Souther, Club and Gilder Streets ...	79,644 0 2	.....	79,644 0 2	
Storm-water drains in different places ...	56,724 2 11	.....	56,724 2 11	
Storm-water drains in Connaught and Sussex Roads ...	35,923 15 9	.....	35,923 15 9	
Miscellaneous extensions and improvements of drains ...	33,664 6 1	.....	33,664 6 1	
Sewerage of the Mazagon District on gravitation system ...	3,06,680 0 5	.....	3,06,680 0 5	
Sewerage of Malabar and Khamballa Hills on gravitation system ...	1,31,666 0 1	.....	1,31,666 0 1	
Sewerage of Fergusson Road and Chinchpokli District ...	89,829 8 5	.....	89,829 8 5	
Raising sewerage in Queen's Road sewer ...	1,862 0 0	.....	1,862 0 0	
Sewerage of Old Race-course District on gravitation system ...	39,039 8 1	.....	39,039 8 1	
Machinery for the sewerage of Parel, the Mazagon, &c., sectional districts.	7,35,520 6 6	.....	7,35,520 6 6	
Mazagon District, sectional ...	3,52,785 4 2	.....	3,52,785 4 2	
Storm-water drain from Wellington Fountain via Bandstand to the Sea ...	36,778 4 2	.....	36,778 4 2	
Improvements in the roadside drains along Bhoiwada Cross Road and new side drains along portions of Dadar Road, &c. ...	29,856 14 11	.....	29,856 14 11	
Surface drainage of Kamatipura ...	83,440 9 2	.....	83,440 9 2	
Storm-water drain in Tardeo Road ...	1,56,542 11 3	.....	1,56,542 11 3	
Low-level channel from the Tardeo Flats to Worli Point ...	11,83,726 0 0	.....	11,83,726 0 0	
Sewerage of the Fergusson Road and Chinchpokli District on the sectional system ...	2,56,782 14 6	.....	2,56,782 14 6	
Sewerage of the Parel District on the sectional system ...	4,66,272 3 7	.....	4,66,272 3 7	
Completion of house drainage connections in different parts of the City ...	8,70,068 9 8	35,862 4 10	9,05,930 14 6	
Difference in the cost of the works proposed by Mr. Santo Crimp in connection with the drainage of the lower parts of the City ...	1,44,176 13 9	.....	1,44,176 13 9	
(17) Catchpits on pipe sewers ...	26,994 14 0	.....	26,994 14 0	
(17) Catchpits on ovoid sewers ...	43,165 13 4	.....	43,165 13 4	
Sewerage of the Malabar Hill District, sectional ...	6,39,948 0 0	.....	6,39,948 0 0	
Construction of a new outfall at Love Grove ...	11,85,616 4 11	3,18,107 12 3	15,03,724 1 2	
Sewerage of the Elphinstone Reclamation ...	2,05,999 10 11	.....	2,05,999 10 11	
Construction of storm-water drains in Marine Lines, from the northern end of the B. B. & C. I. Ry. Office to the junction of 1st Marine Lines ...	13,177 10 10	.....	13,177 10 10	
Providing an additional Pipe Sewer and Ejector in Fergusson Road near its junction at DeLisle Road (North) ...	70,071 10 9	.....	70,071 10 9	
Construction of a storm-water drain in Arthur Road from its junction with Kalachowki Road to Jacob Circle ...	65,453 14 7	.....	65,453 14 7	
Extension of Low Level Channel No. 2 from DeLisle Road to Dadar Road ...	2,83,151 2 7	1,338 1 0	2,84,489 3 7	
Constructing a storm-water drain in Colaba Causeway between Ormiston Street and Thomas Street ...	8,538 5 0	.....	8,538 5 0	
Construction of a storm-water drain in DeLisle Road (North) ...	48,396 3 3	.....	48,396 3 3	
Provision of Ejectors in the Colaba Sub-District ...	1,08,172 2 10	632 4 0	1,08,804 6 10	
C—Drainage Works—Carried over Rs.	1,54,68,972 4 8	3,55,940 6 1	1,58,24,912 10 9	
Carried over Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	1,72,82,910 6 6	6,80,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0
C—Drainage Works, brought forward Rs....	1,54,68,972 4 8	3,55,940 6 1	1,58,24,912 10 9	
Construction of a storm-water drain in DeLisle Road (South)	15,257 13 3	.....	15,257 13 3	
Extending the existing storm-water drain and constructing water gullies and water tables in Mazagon Road...	4,921 11 1	.....	4,921 11 1	
Constructing a storm-water drain in New Purbhadevi Road	33,746 5 0	.....	33,746 5 0	
Constructing storm-water drains in Khetwadi Back Road	25,650 3 11	.....	25,650 3 11	
Constructing a storm-water drain in Queen's Road from Wodehouse Road Bridge to Bandstand	11,086 9 4	.....	11,086 9 4	
Constructing a storm-water drain in Mayo Road from Queen's Statue to Church Gate Street	9,192 11 8	.....	9,192 11 8	
Constructing a storm-water drain in DeLisle Road, north of Arthur Road.	44,502 3 0	.....	44,502 3 0	
Constructing a storm-water drain in Mayo Road from Church Gate Street to Bandstand	21,182 3 3	.....	21,182 3 3	
Measures for relieving the surcharging of sewers	16,99,084 18 8	1,483 3 9	17,00,568 1 5	
Construction of a storm-water drain from the junction of Reay and Connaught Roads to the Harbour near Lakri Bunder	5,56,937 8 7	.....	5,56,937 8 7	
Construction of a storm-water drain in DeLisle Road, south of Arthur Road.	29,371 15 10	.....	29,371 15 10	
Construction of a storm-water drain in Elphinstone Road, West	12,771 5 2	.....	12,771 5 2	
Construction of a storm-water drain in Ghorupdeo Road	17,354 2 3	.....	17,354 2 3	
Construction of a storm-water drain in Mughbat Lane	8,021 15 6	.....	8,021 15 6	
Construction of an office for the Drain- age Staff and quarters and an office for the Head Plumber at Babula Tank and providing fencing round the Drainage Chowki and metalling the yard	36,681 18 11	.....	36,681 18 11	
Construction of two new Drainage Chowkies at Bapty Road and Chur- ney Road	18,083 15 6	.....	18,083 15 6	
Construction of a storm-water drain from the foot of Byculla Bridge to the junction of Connaught and Reay Roads	3,14,019 3 9	.....	3,14,019 3 9	
Construction of a storm-water drain in Soparibagh Road	2,12,956 7 6	.....	2,12,956 7 6	
Construction of a storm-water drain from the Junction of Connaught and Reay Roads to Kalachowki and Soparibagh Roads	6,94,299 9 6	240 0 0	6,94,539 9 6	
Slab drain 18" x 18" in Store Lane, Homji Street	2,557 2 6	.....	2,557 2 6	
Pipe sewer in Currey Road	2,595 15 5	.....	2,595 15 5	
Main sewerage of Parel	22,121 7 8	.....	22,121 7 8	
Arching over with brick masonry the main drain at the Arthur Road Crossing	15,655 0 4	.....	15,655 0 4	
9" Pipe sewer at Lalwadi	2,087 8 2	.....	2,087 8 2	
Laying branch pipe sewers in the village of Parel	17,527 13 11	.....	17,527 13 11	
Ovoiding side-drains to the north of Kalachowki Road	2,600 4 3	.....	2,600 4 3	
Completing the storm-water drain from the top of Bazar Gate Street to the Salvation Army Hall, Hornby Road.	14,460 2 7	.....	14,460 2 7	
Sewerage of Parel on the gravitation system	62,081 1 5	.....	62,081 1 5	
Storm-water drain in Cruickshank Road	17,337 6 0	.....	17,337 6 0	
Laying a 9" pipe for the carriage of storm-water to the Sea from the eastern half of Wodehouse Road ...	1,992 1 3	.....	1,992 1 3	
Laying a 9" pipe-line at the Parel village	878 7 3	.....	878 7 3	
C—Drainage Works—Carried over Rs. ...	1,93,90,989 2 1	3,57,663 9 10	1,97,48,652 11 11	
Carried over Rs. ...	1,72,82,910 6 6	6,80,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0
C—Drainage Works, brought forward Rs.	1,98,90,989 2 1	3,57,663 9 10	1,97,48,652 11 11	
Storm-water drains in part of Gilder Street and Foras Road from Grant Road to Falkland Road ...	10,781 14 10	...	10,781 14 10	
Constructing a catchpit on the Mini Road sewer opposite the European General Hospital ...	4,880 10 8	.....	4,880 10 8	
Altering and ovoiding storm-water drain in Girgaum ...	11,548 14 10	.....	11,548 14 10	
Construction of a storm-water drain in Khetwadi ...	52,662 2 8	.....	52,662 2 8	
Draining the storm-water from the public road round the Mahaluxmi Dhobiwada ...	1,156 0 3	.....	1,156 0 3	
Ovoiding and regrading the open road-side drains in Umar-hadi Road ...	3,119 0 11	.....	3,119 0 11	
Converting the old Engine-house at Love Grove into an office and godown and constructing a shred-lifter chamber with 4 shred lifters ...	25,031 4 1	.....	25,031 4 1	
Tidal flaps on flushing drains for ovoid sewers ...	2,235 4 4	.....	2,235 4 4	
Drainage arrangements at Tardeo Road. Laying a 9" pipe sewer in Ferguson's Cross Road ...	2,292 0 8	.....	2,292 0 8	
Masonry drain from Girgaum Road and passing through Night-soil Dépôt ...	2,261 14 9	.....	2,261 14 9	
Opening out the public water-course behind Mr. Cama's property at Parel Road ...	21,317 6 7	.....	21,317 6 7	
Laying a 12" pipe from the emergent reservoir to manhole in Apollo Street	3,362 6 7	.....	3,362 6 7	
Ovoiding and constructing masonry side-drains in different places...	3,169 7 8	.....	3,169 7 8	
Ovoiding and constructing masonry side-drains on Carroll Road, north side ...	17,895 11 11	.....	17,895 11 11	
Ovoiding kutcha drain in Arthur Road as far as G. I. P. Railway Crossing...	2,711 3 8	.....	2,711 3 8	
Constructing storm-water drains and ovoiding and constructing masonry side-drains in different places ...	4,988 15 1	.....	4,988 15 1	
Automatic flush tanks on pipe sewers	20,493 10 8	.....	20,493 10 8	
Improving side-drains, Malabar Hill ...	38,434 0 10	.....	38,434 0 10	
Storm-water drains at Ferguson Road from DeLisle Road to the water-course (3,200 feet) west of the road...	7,672 13 6	.....	7,672 13 6	
Providing and constructing masonry side-drain in Malabar Hill ...	29,564 4 9	.....	29,564 4 9	
Providing and constructing masonry side-drains (a) on Naigaum Cross Road on both sides from Vincent Road to Dadar and (b) east and west of Ghorupdeo Road ...	7,346 11 0	.....	7,346 11 0	
Storm-water drain running on the west of the G. I. P. Railway Dadar Station ...	5,239 5 6	.....	5,239 5 6	
Constructing quarters for workmen at Love Grove Air Compressor Station (including purchase of land and an old chawl) ...	7,023 6 9	.....	7,023 6 9	
Constructing additional quarters for Lascars at Love Grove ...	21,961 1 5	.....	21,961 1 5	
Cutting out rocky barriers in the channel at Love Grove ...	5,477 9 6	.....	5,477 9 6	
Surface Drainage in Queen's Road between the level-crossing and Charni Road ...	116 6 0	.....	116 6 0	
Ovoiding and regrading the side-drain in Imamwada from Parel Road to Jail Road, North ...	2,807 15 0	.....	2,807 15 0	
Masonry storm-water drain 18" x 18" in Apollo Street ...	2,089 3 10	.....	2,089 3 10	
Open ovoid drain on the east side of DeLisle Road ...	1,888 15 9	.....	1,888 15 9	
Zinc ventshafts on pipe sewers in the Fort Sewerage District ...	1,567 14 10	.....	1,567 14 10	
Storm-water drain in Sankli Street ...	11,165 8 9	.....	11,165 8 9	
	11,529 15 8	.....	11,529 15 8	
C—Drainage Works—Carried over Rs. ...	1,97,35,182 8 11	3,57,663 9 10	2,00,92,846 2 9	
Carried over Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs....	1,72,82,910 6 6	6,80,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0
C—Drainage Works, brought forward Rs....	1,97,35,182 8 11	3,57,663 9 10	2,00,92,846 2 9	
Cost of obtaining advice from Mr. Santo Crimp, in regard to house connections, &c.	11,992 9 10	.....	11,992 9 10	
Construction of permanent manholes over drains	37,050 5 7	.....	37,050 5 7	
Masonry side-drains at Malabar Hill from Gowalia Tank Road to the Government House	7,805 4 2	.....	7,805 4 2	
Tidal flaps on the ovoid sewers ...	11,025 14 0	.....	11,025 14 0	
Construction of a coal shed, a coal tramway, and fence round the compound of the Love Grove Air Compressor Station	11,211 10 9	.....	11,211 10 9	
6" Pipe Drain in DeLisle Road ...	480 10 7	.....	480 10 7	
6" Pipe Drain in Banganga Cross Lane.	824 15 8	.....	824 15 8	
Extension of the 15" sealed sewage main in Fergusson Road from the Culvert to Worli Road	11,466 8 10	.....	11,466 8 10	
Laying a 6" pipe-drain in Tulsirampada in Parel Chawl Road	1,051 12 0	.....	1,051 12 0	
Laying a 6" pipe drain in the private passage known as Kalachowki Cross Lane	602 14 7	.....	602 14 7	
6" pipe drain in the passage to the north of Parel Cross Lane	472 10 3	.....	472 10 3	
Connecting certain properties in Gilder Street with the new storm-water drain constructed thereat	1,496 13 1	.....	1,496 13 1	
Laying a 9" stoneware pipe drain in a portion of Foras Road, west of Carroll Road	1,365 13 11	.....	1,365 13 11	
Laying a 6" pipe drain in the passage belonging to Sulleman Jusab at Belvedere Hill Road	647 8 2	.....	647 8 2	
Laying a 6" pipe drain in Bapty Road.	486 15 2	.....	486 15 2	
Laying a 9" pipe drain at Tank Sunder Koliwada	2,042 13 3	.....	2,042 13 3	
Construction of a catchpit on the Queen's Road ovoid sewer in Charni Road, &c.	6,202 0 4	.....	6,202 0 4	
Laying a drain at Mr. Tribhowandas Varjivandas' Cart at Girgaum Back Road	254 13 2	.....	254 13 2	
Storm-water drain in Ripon Road from Agripada drain to Jacob Circle ...	27,086 12 11	.....	27,086 12 11	
Storm-water drain in Clerk Road from Parel Road to Jacob Circle	26,900 9 11	.....	26,900 9 11	
Storm-water drain in Haines Road from Khatao Makarji's Mill to Jacob Circle	48,844 13 3	.....	48,844 13 3	
Laying a branch 6" pipe sewer at DeLisle Road	761 3 7	.....	761 3 7	
Laying a 6" pipe drain at Ghorupdeo Road	404 6 3	.....	404 6 3	
Laying a 9" pipe sewer along Elphinstone Road at its Junction with Parbhadevi Road	1,112 5 3	.....	1,112 5 3	
Laying a 9" pipe drain with Inspection Chamber at the passage running through Chamarbag properties ...	3,938 8 10	.....	3,938 8 10	
Laying a 6" pipe drain on the Tulsei main road	1,000 9 1	.....	1,000 9 1	
Laying a 6" pipe drain at Ghorupdeo Road, 1st Cross Lane	360 14 10	.....	360 14 10	
Constructing a storm-water drain at Kalachowki Road	789 2 3	.....	789 2 3	
Laying a 6" pipe drain along Chamarbag properties in Parel Road	1,166 0 8	.....	1,166 0 8	
Laying a pipe sewer between Forjett Street and Tardeo Road	2,409 10 2	.....	2,409 10 2	
Fees to Mr. Midgley Taylor on account of his report on the Ejector, &c., required for Sectional District ...	1,961 1 4	.....	1,961 1 4	
Establishment for the preparation of plans and estimates for the sewerage of Mazagon, Parel and Old Race Course Districts	10,338 0 0	.....	10,338 0 0	
C—Drainage Works—Carried over Rs. ...	1,99,68,688 12 7	3,57,663 9 10	2,03,26,352 6 5	
Carried over Rs. ...	1,72,82,910 6 6	6,80,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0
C—Drainage Works, brought forward Rs. ...	1,99,68,688 12 7	3,57,663 9 10	2,03,26,352 6 5	
Tracing the plans and sections of the Parel, Mazagon and Old Race Course Districts	658 15 0	.....	658 15 0	
Fees to Messrs. Midgley Taylor and G. R. Strachan for their opinion on matters connected with the surcharg- ing of sewers	16,796 13 4	.....	16,796 13 4	
Expenses incurred by Mr. James in connection with inquiries in regard to Lierner system, &c.	1,634 3 0	.....	1,634 3 0	
Construction of a storm-water drain in Church Gate Street from its junction with Mayo Road to the main storm-water drain in Queen's Road near the Church Gate Street ...	4,033 9 5	.....	4,033 9 5	
Laying a 6" pipe sewer in the passage opening to Portuguese Church Road	227 4 3	.....	227 4 3	
Laying a 6" pipe drain at Madanpura ...	346 4 2	.....	346 4 2	
Extension of the 15" sealed sewage main from the Chinchpokli Fire Brigade Station to the head manhole on Clerk Road sewer	12,408 4 9	.....	12,408 4 9	
Constructing a storm-water drain in Colaba Causeway between Mayo Road and Thomas Street	8,973 9 11	.....	8,973 9 11	
Preparation of certain models for im- provement of main sewers, &c. ...	200 0 0	.....	200 0 0	
Laying 6" pipe drain in the passage behind the New Building of Mr. Hormusji Vakil	5,226 13 4	.....	5,226 13 4	
Laying a 6" pipe drain in the passage leading to the Hon'ble Mr. Setalvad's Bungalow	1,244 3 6	.....	1,244 3 6	
Laying a 6" pipe drain in the Nepean Sea Road	1,243 11 7	.....	1,243 11 7	
Laying a 9" pipe drain at Elphinstone Road	6,761 10 9	.....	6,761 10 9	
Extending the existing 6" pipe drain in the passage off Dadar and Kum- bharwada Cross Lane	33 7 10	.....	33 7 10	
Laying a 6" pipe drain in the passage at Currey Road	471 10 2	.....	471 10 2	
Laying a 9" pipe drain in the passage leading to Government Gate Road, Parel	2,139 0 6	.....	2,139 0 6	
Laying a 4" C. I. pipe drain from DeLisle Road to the boundary of the Century Mill premises	4,816 0 10	.....	4,816 0 10	
Providing an additional pipe sewer and Ejector in Fergusson Road near its junction at DeLisle Road (North) ...	8,000 0 0	.....	8,000 0 0	
Laying a 6" pipe sewer in the passage near the Lunatic Asylum, Colaba ...	1,364 5 4	.....	1,364 5 4	
Laying a branch drain in the passage off Mount Pleasant Road	727 10 6	.....	727 10 6	
Laying a 6" pipe sewer at Banganga Tank Lane	929 8 9	.....	929 8 9	
Laying a 7" pipe drain on the eastern boundary of the Babula Tank	1,321 9 2	.....	1,321 9 2	
Laying a 6" pipe drain in Gowalia Tank Road	387 11 9	.....	387 11 9	
Laying a 6" pipe drain at Victoria Bunder Road	367 11 6	.....	367 11 6	
Laying a 5" pipe drain in Kamatipura 9th Street	562 1 2	.....	562 1 2	
Laying a 6" pipe drain in the lane be- hind No. 49-51, Warden Road	1,610 10 10	.....	1,610 10 10	
C—Drainage Works—Carried over Rs. ...	2,00,51,175 11 11	3,57,663 9 10	2,04,08,839 5 9	
Carried over Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 0

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	1,72,82,910 6 6	6,30,108 0 6	1,79,13,018 7 0	1,79,13,018 7 4
C—Drainage Works, brought forward Rs.	2,00,51,175 11 11	3,57,663 9 10	2,04,08,839 5 9	
Giving street connections to storm-water drains in the City ...	27,222 1 1	7,266 0 6	34,488 1 7	
Laying a 6" pipe drain at Warden and Tardeo Roads ...	480 3 6	.....	480 3 6	
Laying a 6" pipe sewer in the compound of premises No. 14-20 to the east of Cumballa Hotel Lane ...	615 3 7	.....	615 3 7	
Laying a 6" pipe drain in the passage leading to Khed Tank in the north of Elphinstone Road ...	1,027 11 3	.....	1,027 11 3	
Laying a 6" pipe drain in the passage to the east of Cumballa Hotel Lane.	834 6 2	.....	834 6 2	
Laying a 6" pipe drain at Nepean Sea Road ...	978 13 7	.....	978 13 7	
Colaba Sewerage Work ...	44,836 14 11	.....	44,836 14 11	
Sewerage of the Malabar Hill District	7,394 12 2	.....	7,394 12 2	
Laying a 4" air main in Victoria Extension Road from the junction of Victoria Road and Mount Road to Ejector Station No. 2, Mazagaon, in place of the existing 2½" O. I. main.	4,320 0 2	.....	4,320 0 2	
Construction of a sealed sewage main from the Elphinstone Road Ejector Station to Worli Road ...	68,326 11 1	.....	68,326 11 1	
Constructing a masonry drain with four manholes and eight half-sized water entrances at DeLisle Road ...	6,351 8 10	.....	6,351 8 10	
* Filling in the open side drains on both the sides and providing covered storm-water drains with water tables and water gullies in portions of 1st to 5th Khetwadi Lanes and Main Roads ...	7,431 11 8	.....	7,431 11 8	
Filling in old side drains and providing a covered drain with manholes, full sized and half-sized water entrances, with water tables on 14th Khetwadi Lane...	3,104 6 3	.....	3,104 6 3	
Providing storm-water drain with water entrances and water tables at 11th Khetwadi Lane ...	3,184 12 1	.....	3,184 12 1	
Constructing a road-side drain and providing a covered storm-water drain at Girgaum Back Road ...	12,952 13 9	.....	12,952 13 9	
Laying a 6" pipe drain on the West of Dadar Road ...	258 10 8	.....	258 10 8	
Laying a 9" pipe sewer between Charni Road and Khetwadi 11th Lane ...	1,639 3 1	.....	1,639 3 1	
Making three drainage connections to the storm-water drain in Hornby Road ...	238 0 10	.....	238 0 10	
Surface drainage of Dadar and Nalgaum Roads ...	16,581 6 2	6,229 8 2	22,810 14 4	
Providing fair weather cast-iron covers and frames for water entrances in A Ward ...	5,118 8 2	18,283 5 8	23,351 13 10	
Subsidiary works at the Love Grove New Pumping Station in connection with the measures for relieving the surcharging of sewers ...	88,379 10 0	12,076 11 7	1,00,456 5 7	
Laying a 15" pipe sewer from the Wellington Fountain to the head manhole of the Mint Road ovoid sewer ...	26,707 6 10	.....	26,707 6 10	
Additions to and enlargement of existing sewers in connection with the duplication of Tansa main ...	5,88,974 10 0	1,77,206 15 7	7,66,181 9 7	
Sewerage of the north of the Island ...	1,680 9 1	.....	1,680 9 1	
C—Drainage works, Total Rs. ...	2,09,69,815 14 10	5,78,676 3 4	2,15,48,492 2 2	2,15,48,492 2 2
Carried over Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2
D—WATER WORKS—				
Vehar Lake (value of) ...	45,21,943 7 9	.....	45,21,943 7 9	
Tulsi Water Works ...	37,61,888 6 0	.....	37,61,888 6 0	
Vehar Outlet Tower ...	2,38,111 10 0	.....	2,38,111 10 0	
Service Reservoir at Bhandarwada ...	10,16,830 13 3	.....	10,16,830 13 3	
Tulsi gathering ground ...	94,500 0 0	.....	94,500 0 0	
Malabar Hill Reservoir ...	4,00,000 0 0	.....	4,00,000 0 0	
New hydrants, including cost of erection ...	20,876 7 1	.....	20,876 7 1	
Construction of a double-storeyed chawl for the Water Works staff and quarters for the Superintendent ...	29,182 3 3	.....	29,182 3 3	
Survey of new catch-water channels, &c. ...	7,838 4 1	.....	7,838 4 1	
Construction of filter beds at Vehar ...	1,04,433 15 11	.....	1,04,433 15 11	
Improvement of the water-supply of the outlying districts ...	6,82,065 0 8	.....	6,82,065 0 8	
Raising the Tulsi dams ...	1,18,257 9 7	.....	1,18,257 9 7	
Providing additional catch-water channels at Vehar and Tulsi ...	91,794 0 6	.....	91,794 0 6	
Purchase of check meters for the prevention of waste of water ...	1,27,132 14 8	.....	1,27,132 14 8	
Enlarging different mains ...	1,03,130 8 6	.....	1,03,130 8 6	
Cost of new water mains from Nesbit Road to Babula Tank ...	15,000 0 0	.....	15,000 0 0	
Establishment charges ...	80,770 0 0	.....	80,770 0 0	
Portion of excess cost of Vehar Outlet Tower ...	31,675 6 3	.....	31,675 6 3	
Provision of turbing at the Malabar Hill Reservoir ...	2,282 0 0	.....	2,282 0 0	
Malabar Hill Reservoir (extra cost) ...	1,14,039 2 6	.....	1,14,039 2 6	
Increasing and improving the distribution of the water-supply and providing higher levels, Tulsi District, with filtered water ...	20,211 8 4	.....	20,211 8 4	
18" main in Frere Road from the Bhandarwada Reservoir to Carnac Road and 12" main from Carnac Road to Mint ...	80,031 5 0	.....	80,031 5 0	
Concrete trench, waste weir, Vehar Lake ...	30,608 7 1	.....	30,608 7 1	
Mains in 14 streets west of Frere Road and other mains in various places ...	59,275 1 8	.....	59,275 1 8	
Arthur Road connection works necessitated by the laying of the Tansa 27" main ...	9,542 10 5	.....	9,542 10 5	
Deacon's meters ...	16,788 0 0	.....	16,788 0 0	
Providing an asphalt surface to the floor of the settling basin of the Malabar Hill Reservoir and other works in connection therewith ...	92,872 9 2	.....	92,872 9 2	
Pawai Water Works ...	6,14,984 6 9	.....	6,14,984 6 9	
Additional Water Mains ...	98,386 0 10	.....	98,386 0 10	
Extension of Tulsi Catch-water Channel ...	20,836 9 1	.....	20,836 9 1	
Tansa Water Works including cost of survey ...	1,49,36,383 7 0	Cr. 879 8 0	*1,49,35,508 15 0	
Improvements of the outlet towers at Vehar and Tulsi ...	12,842 13 10	.....	12,842 13 10	
9" main from Ghorupdeo Road to Jackeria Bunder Road and 6" main from thence to Sewri Cemetery Road ...	27,892 4 7	.....	27,892 4 7	
New mains in Reay Road, &c. ...	1,042 5 0	.....	1,042 5 0	
Main along Kalachowki Road from Parel Road to Ghorupdeo Road and along Reay Road from Kalachowki Road to Bhandarwada Reservoir ...	1,26,969 12 8	.....	1,26,969 12 8	
9" service main connected at one end with the Bhandarwada Reservoir and at the other with the Sewri Road 12" main and supplemented midway by a 9" service main down Connaught Road ...	48,364 0 5	.....	48,364 0 5	
Extension of water mains in various places ...	28,026 6 5	.....	28,026 6 5	
Further alterations and improvements at the Malabar Hill Reservoir ...	29,971 14 8	.....	29,971 14 8	
Covering storage basin at the Bhandarwada Reservoir and constructing filters over it ...	91,052 13 0	.....	91,052 13 0	
D—Water Works—Carried over Rs. ...	2,79,02,834 5 11	Cr. 879 8 0	2,79,01,954 13 11	
Carried over Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2

* Inclusive of Rs. 2,40,000 paid out of the Premlta received on the Loan.

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2
D—Water Works, brought forward Rs. ...	2,79,02,834 5 11	Cr. 879 8 0	2,79,01,954 13 11	
Road from Vihar to Tulsi with a light tramway to carry pipes ...	471 3 6	.....	471 3 6	
9" and 10" pipes from Grant Road to Kamathipura ...	7,163 3 9	.....	7,163 3 9	
Distribution mains in Tardeo and Gam- devi Roads ...	7,391 5 2	.....	7,391 5 2	
Mains from 48" Tansa main at Chinch- pokli to Grant Road and 32" main from Grant Road to Malabar Hill ...	2,10,000 0 0	.....	2,10,000 0 0	
32" outlet mains from Malabar Hill to Chowpati ...	30,000 0 0	.....	30,000 0 0	
Construction of additional filters at the Malabar Hill Reservoir ...	2,45,319 9 2	.....	2,45,319 9 2	
Replacement of the Vihar main for the whole distance between Vihar and Coorla, north of Coorla ...	6,63,281 7 7	.....	6,63,281 7 7	
Removing and relaying the 32" Vihar main, south of Coorla ...	5,29,402 4 11	151 2 1	†5,29,553 7 0	
9" and 4" mains in the new roads in the Agripada District ...	43,790 0 4	.....	43,790 0 4	
4" main in New Street near Lohar Chawl ...	2,531 10 0	.....	2,531 10 0	
Mains in the 1st Nagpada Scheme ...	6,731 6 1	.....	6,731 6 1	
4" main along Wodehouse Road ...	2,426 2 11	.....	2,426 2 11	
4" main in Sankli Street ...	1,140 11 7	.....	1,140 11 7	
4" main in Connanght Road Estate ...	1,666 9 8	.....	1,666 9 8	
48" Tansa main at Chinchpokli to Grant Road and 32" main from Grant Road to Malabar Hill ...	47,629 7 1	.....	47,629 7 1	
32" outlet mains from Malabar Hill to Chowpati ...	15,922 14 6	.....	15,922 14 6	
Laying new water mains and fixing hydrants in the roads, "City Improve- ment Scheme No. IV" ...	30,743 12 5	.....	30,743 12 5	
Laying water mains in B Ward ...	1,17,921 12 8	.....	1,17,921 12 8	
Laying water mains on the Colaba Reclamation ...	36,269 2 0	.....	36,269 2 0	
Laying water mains in A Ward ...	1,20,996 13 1	.....	1,20,996 13 1	
Construction of quarters for Water Works Office Staff on the Babula Tank Site ...	1,650 10 3	.....	1,650 10 3	
Laying a 9" main along Mount Road from its junction with Love Lane to the junction at Victoria Road and a 6" main along Ghorupdeo Road to be joined to the 6" main already laid in Albert Road ...	15,972 15 0	.....	15,972 15 0	
Laying an additional 9" main on the 24" main, somewhat north of Government House, Parel, to join the 4" main in Lady Jamsetji Road.	13,094 10 0	.....	13,094 10 0	
<i>Tansa Reduplication and Auxiliary Works—</i>				
Duplicating Syphons Nos. 1 to 7 ...	33,73,720 4 1	1,159 11 11	33,74,880 0 0	
Do. Syphon No. 8 ...	29,68,335 0 0	.....	29,68,335 0 0	
Raising Tansa Dam ...	4,38,329 15 4	525 0 8	4,39,355 0 0	
Distributing mains in the City ...	4,54,002 4 10	.....	4,54,002 4 10	
General expenses ...	64,278 1 6	Cr. 1,826 1 3	62,452 0 3	
Laying a 5" service main in Sand- hurst Road ...	37,239 14 8	15 8 9	37,255 7 5	
Laying a 14" main in Parel Road north of Grant Road ...	19,010 8 3	.....	19,010 8 3	
Substitution of an electrically driven Turbine pump for plunger pumps and construction of a water tower on the Malabar Hill Reservoir ...	41,047 3 10	.....	41,047 3 10	
Renewal of water mains in the Girgaum District for improvement of the water supply ...	43,390 2 11	.....	43,390 2 11	
D—Water Works—Carried over Rs. ...	3,74,94,205 9 0	Cr. 854 1 10	3,74,93,351 7 2	
Carried over Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2

† Inclusive of Rs. 3,74,000 paid from the contribution received from the G. I. P. Railway Co.

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2
D.—Water Works, brought forward Rs. ...	3,74,94,205 9 0	Cr. 854 1 10	3,74,93,351 7 2	
15" water main from 24" main in Bhoiwada to Elphinstone Road as far as new Paybhadevi Road and thence a 9" main to the Century Mill	49,452 0 2	.....	49,452 0 2	
New mains in various places	28,808 1 1	.....	28,808 1 1	
Covering storage basin at the Bhan- darwada Reservoir and constructing filters over it	44,597 14 4	.....	44,597 14 4	
Excess cost of Worli Road main	21,696 4 1	.....	21,696 4 1	
Residence of the Chief Inspector, Water Works, at Babula Tank Road, and rooms for 6 sluicemen	32,028 1 3	.....	32,028 1 3	
24" and 27" mains from Malabar Hill Reservoir to Frere Fountain, Fort	50,093 1 2	.....	50,093 1 2	
Connections at Chinchpokli between Tansa and Vehar mains	7,402 1 4	.....	7,402 1 4	
Laying water mains in Wellington Lines	4,397 9 5	.....	4,397 9 5	
Renewing 3" main in B Ward with 4" pipes—extra cost chargeable to Capital	4,533 3 4	.....	4,533 3 4	
Replacing 32" Vehar pipes for 1½ miles by 48" C. I. pipes (north of Coorla).	2,82,483 15 0	.. ..	2,82,483 15 0	
9" main in DeLisle Road	9,849 6 1	.....	9,849 6 1	
4" main in Khara Talao Road	2,774 11 7	.. ..	2,774 11 7	
Providing the trunk water mains with Venturi water meters	23,000 0 0	.....	23,000 0 0	
Fixing Deacon's meters on the distri- buting mains... ..	20,445 4 8	.....	20,445 4 8	
Extending the existing 9" main in the Agripada District along Gilder Street to join the existing 32" main in Grant Road	11,904 13 6	.....	11,904 13 6	
Extending the existing 9" main in DeLisle Road to join with 15" main in Elphinstone Road... ..	8,983 12 0	.....	8,983 12 0	
Travelling expenses to an Inspector and a lascar for taking survey, &c., in connection with the storage reservoir and filter beds at Ghat- koper	35 0 6	.. ..	35 0 6	
Constructing office, quarters and store-rooms for W. W., G Ward, at DeLisle Road on the site of Foras Tank	19,415 3 11	.....	19,415 3 11	
Extending the 9" main laid along the bank of the drainage channel across the proposed Foras Road from the Century Mill to join the existing 9" main at Worli... ..	4,092 4 11	.....	4,092 4 11	
Constructing a Screening Tower at Vehar Lake	20,579 2 7	515 13 0	21,094 15 7	
Construction of a terminal service Reservoir at Kirol near Ghatkoper.	4,045 13 0	96,978 7 6	1,01,024 4 6	
D.—Water Works.—Carried over Rs. ...	3,81,44,818 4 11	96,640 2 8	3,82,41,458 7 7	
Carried over Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2
D—WATER WORKS—Brought forward Rs.	3,81,44,818 4 11	6,640 2 8	3,82,41,458 7 7	
<i>Paid out of the Worn-out Water Mains Renewal Fund—</i>				
Replacing 3" main in Arthur Road by a 6" main and to extend it so as to join the 6" main in Kala- chowki Road	431 2 4	.. ..	431 2 4	
Laying a 9" main along Mount Road from its junction with Love Lane to the junction at Victoria Road and a 6" main along Ghorupdeo Road to be joined to the 6" main already laid in Albert Road	6,446 14 1	.....	6,446 14 1	
Laying a 6" main in Matarpakhadi and a 12" main along Mazagon Road from Nesbit Lane to Mount Road	5,696 15 4	.....	5,696 15 4	
Cost of renewing 3" main in Worli Road with 9" pipes (chargeable to revenue)	26,517 3 9	.....	26,517 3 9	
Replacing 3" main in Zaoba's Oarts by a 4" one	672 7 6	.....	672 7 6	
Mains in the 1st Nagpada Scheme ; ... Replacing the 5" main in Janjekar Street and 3" and 4" main in Old Hanuman Lane by a 6" main	1,645 6 0 4,359 1 2	..... .....	1,645 6 0 4,359 1 2	
4" main in New Street near Lohar Chawl	2,168 15 11	.. ..	2,168 15 11	
Replacing 3" main in Foras Road by a 6" main	3,427 0 0	... ..	3,427 0 0	
Replacing the 3" main in Chunam Kiln Road by a 5" main	998 14 10	.....	998 14 10	
Replacing a 3" water main in Mazagon Road by 5" main, &c.... ..	2,133 4 1	.....	2,133 4 1	
Laying water mains in A Ward	53,230 8 10	.....	53,230 8 10	
Laying water mains in B Ward	57,241 10 2	.....	57,241 10 2	
Replacing a 3" water main in Mugh- bhat Cross Lane by a 5" main	924 5 9	.....	924 5 9	
Laying 3" main in Gunpowder Road to be replaced by a 5" main, &c., &c.	1,730 5 8	.....	1,730 5 8	
6" water main in Soparibag Road from the Junction of Parel Govt. Gate Road with Elphinstone Road	8,838 15 3	.....	8,838 15 3	
Laying a 9" main in Cawasji Patel Street	2,817 1 10	.....	2,817 1 10	
Replacing 3" main in Huzria Street by a 5" main	1,141 9 8	.....	1,141 9 8	
Laying 3" and 4" mains in Kamati- pura Bazar Road by a 6" main	2,447 1 6	.....	2,447 1 6	
Replacing 3" water main in the Maho- medan Street at Ripon Road by a 5" main	1,266 1 4	.....	1,266 1 4	
Replacing 3" main in Bapu Khote Street by a 5" main	1,136 8 0	.....	1,136 8 0	
Replacing the 3" pipe in Arthur Road by a 6" one and extending it so as to join the 6" main in Kalachowki Road	551 2 8	.....	551 2 8	
Worn-out Water Mains Renewal Fund— Carried over Rs.	1,85,822 11 8	.....	1,85,822 11 8	
D—Water Works—Carried over Rs.	3,81,44,818 4 11	96,640 2 8	3,82,41,458 7 7	
Carried over Rs.	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2

Appendix No. 8—continued.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	3,82,52,726 5 4	12,08,784 3 10	3,94,61,510 9 2	3,94,61,510 9 2
D—Water Works—Brought forward Rs. ...	3,81,44,818 4 11	96,640 2 8	3,82,41,458 7 7	
Worn-out Water Mains Renewal Fund—Brought forward Rs. ...	1,85,822 11 8	.....	1,85,822 11 8	
Laying a 12" main from the Tulse Pipe line to Worli Road in place of the 6" main in Fergusson Road ...	4,146 5 6	.....	4,146 5 6	
Laying a 5" water main in place of the existing 3" main in Panaswadi.	1,352 1 0	.....	1,352 1 0	
Laying a 5" main in Tank Street ...	1,579 0 7	.....	1,579 0 7	
Laying a 4" main in Sheikh Burhan Street	329 1 11	.....	329 1 11	
Replacing 4" main by a 6" main in Love Lane	2,318 9 8	.....	2,318 9 8	
Replacing small service mains in various parts of the City	8,715 9 3	.....	8,715 9 3	
Laying 5" main in Vithoba Lane ...	365 0 1	.....	365 0 1	
Laying 5" main in Temker Street...	1,830 10 11	.....	1,830 10 11	
Replacing 3" main in Kika Street by a 5" one	2,402 6 0	.....	2,402 6 0	
Replacing 3" main by a 5" main in Guzar Street	966 15 5	.....	966 15 5	
Laying 5" main in Undria Street ..	1,751 1 9	.....	1,751 1 9	
Laying two 6" water mains, one on each side of the Sandhurst Road extension between Dongri Street and Chinch Bunder Road	5,546 13 5	Cr. 5,546 13 5	.....	
	2,17,126 7 2	Cr. 5,546 13 5	2,11,579 9 9	
D—Water Works—Total Rs. ...	3,83,61,944 12 1	91,093 5 8	3,84,53,038 1 4	3,84,53,038 1 4
E—CEMETERIES (Burning and Burial Grounds)—				
Burial ground for Mahomedans and Beni-Israels	2,11,652 4 5	.....	2,11,652 4 5	
Purchase of two sites of land for burning and burial grounds at Mahim and Worli, including cost of enclosure walls, &c.	47,680 4 4	.....	47,680 4 4	
Purchase of land from Mr. Ashburner for extension of burial ground for Mahomedans	1,17,046 0 6	.....	1,17,046 0 6	
Purchase of land in Narielwadi for future extension of burial ground for Mahomedans	1,60,577 5 10	.....	1,60,577 5 10	
Extension of burial ground at the Sewri Cemetery	71,640 9 8	.....	71,640 9 8	
Providing a burial ground at Haines Road for the Portuguese Com- munity	26,949 12 7	.....	26,949 12 7	
Providing a burial ground for Maho- medans in F and G Wards at Antop Hill, Matunga	25,981 11 5	.....	25,981 11 5	
Extension of the Sewri Cemetery ...	31,233 12 1	9,668 13 5	40,902 9 6	
Filling in the portion of the Haines Road Cemetery	9,331 13 3	668 2 9	10,000 0 0	
Providing a boundary wall at the Haines Road Cemetery	13,278 9 6	.....	13,278 9 6	
Acquisition of land required for the extension of the Hindu Burial Ground at Mahim	20,094 14 9	.....	20,094 14 9	
E—Cemeteries—Total Rs. ...	7,85,467 2 4	10,337 0 2	7,45,804 2 6	7,45,804 2 6
Carried over Rs. ...	7,73,50,188 8 9	13,10,214 9 3	7,86,60,352 13 0	7,86,60,352 13 0

Appendix No. 8—concluded.

	Capital Expenditure upto 31st March 1916.	Expended during the year.	Total Capital Expenditure upto 31st March 1917.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...	7,73,50,138 8 9	13,10,214 9 3	7,86,60,352 13 0	7,86,60,352 13 0
<i>F—Disposal of Town Sweepings—</i>				
Purchase of land on the Flats required for the disposal of Town sweepings.	1,98,913 8 8	....	1,98,913 8 8	
Purchase of land on the Flats for the deposit of kutchra	5,890 14 1	.....	5,890 14 1	
Disposal of Town sweepings at Deonar.	7,84,000 0 0	.....	7,84,000 0 0	
Extra cost of the scheme for the disposal of Town sweepings at Deonar	53,619 13 4	.....	53,619 13 4	
20 additional wagons for the disposal of Town sweepings	38,684 2 0	.....	38,684 2 0	
<i>F'—Disposal of Town Sweepings—Total Rs.</i>	10,81,108 6 1	.....	10,81,108 6 1	10,81,108 6 1
<i>G—Miscellaneous—</i>				
Purchase of land for the site of the Petit Hall and other charges in connection therewith	2,476 8 6	960 0 0	3,436 8 6	
Filling in the Babula Tank with debris.	58,857 15 9	.....	58,857 15 9	
Filling in Gowalia Tank and making of Roads, &c., thereon	1,48,967 11 10	3,981 15 3	1,52,949 11 1	
Filling in Matarpakhadi Tank at Mount Road	2,607 5 8	.....	2,607 5 8	
Filling in Gilder Tank	15,488 9 4	.....	15,488 9 4	
Filling in the portion of the old water- course situated at the north corner of the Foras Tank and west of Pur- bhadavi Night-soil Depot in DeLisle Road	3,506 5 7	.....	3,506 5 7	
Laying out a new park at the site of the old Bhatia Baug	21,455 5 0	55 14 7	21,511 3 7	
<i>G—Miscellaneous—Total Rs. ...</i>	2,58,359 13 8	4,997 13 10	2,58,357 11 6	2,58,357 11 6
Grand Total Rs. ...	7,86,84,606 7 6	* 13,15,212 7 1	7,99,99,818 14 7	7,99,99,818 14 7

* Financed as follows :—

From Loan Capital	Rs. 12,90,759 4 6
„ Contribution for Primary Schools from Government	„ 30,000 0 0
	„ 13,20,759 4 6

Less—

Credit through Worn-out Water Mains Renewal Fund	„ 5,546 13 5
	Rs. 13,15,212 7 1

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

Appendix

STATEMENT of Outstanding Loans due by the Municipality and

No.	Particulars of Loans.	Rate of Interest.	Balance due on 1st April 1916.	Amount raised in 1916-17.	Total.	Amount re-paid in 1916-17.	Balance due on 31st March 1917.	
	1	2	3	4	5	6	7	
			Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Loan raised from Government.								
1	Vehar Water Works Debt ...	4 per cent. ...	21,92,274 15 9	.....	21,92,274 15 9	26,780 8 0	21,65,494 7 9	
Loans raised from the Public.								
1	Drainage Loan of 1878 (Rs. 26,94,000)	5 per cent. ...	4,63,000 0 0	.....	4,63,000 0 0	(a) 1,37,000 0 0	3,26,000 0 0	
2	The Sanitary Works Loan of 1885-86 (Rs. 44 Lakhs) ...	5 per cent. ...	37,39,000 0 0	.....	37,39,000 0 0	(b)	37,39,000 0 0	
3	The Sanitary Works Loan of 1888 (Rs. 7 Lakhs) ...	5 per cent. ...	7,00,000 0 0	.....	7,00,000 0 0	(b)	7,00,000 0 0	
4	The Tansa Water Works Loan (Rs. 147 Lakhs) ...	5 per cent. ...	1,47,00,000 0 0	.....	1,47,00,000 0 0	(b)	1,47,00,000 0 0	
5	The Drainage and Water Works Loan of 1888 (Rs. 12 Lakhs) ...	5 per cent. ...	12,00,000 0 0	.....	12,00,000 0 0	(b)	12,00,000 0 0	
6	The Miscellaneous Works Loan of 1888-89 for Drainage and Water Works, Markets and Roads (Rs. 10,08,500) ...	5 per cent. ...	10,08,500 0 0	.....	10,08,500 0 0	(b)	10,08,500 0 0	
7	The Agripada House Sullage Water Connections Loan of 1889-90 of Rs. 2,48,000 ...	5 per cent. ...	2,48,000 0 0	.....	2,48,000 0 0	(b)	2,48,000 0 0	
8	The 35 Lakhs various Sanitary Works Loan of 1890-91 ...	5 per cent. ...	35,00,000 0 0	.....	35,00,000 0 0	(b)	35,00,000 0 0	
9	The Municipal Office Building Loan of 1891 (Rs. 8 Lakhs) ...	5 per cent. ...	8,00,000 0 0	.....	8,00,000 0 0	(b)	8,00,000 0 0	
10	The Loan of 4½ Lakhs for Fire Brigade Quarters and Stations ...	4 per cent. ...	4,50,000 0 0	.....	4,50,000 0 0	(b)	4,50,000 0 0	
11	The Loan of 42 Lakhs for repayment of the Balance of the 4½ per cent. Government Consolidated Loan ...	4 per cent. ...	42,00,000 0 0	.....	42,00,000 0 0	(b)	42,00,000 0 0	
12	The Loan of 23½ Lakhs for Drainage and other Works ...	4 per cent. ...	23,25,000 0 0	.....	23,25,000 0 0	(b)	23,25,000 0 0	
13	The Loan of 15½ Lakhs for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (1st instalment of Rs. 10 Lakhs) ...	3½ per cent. ...	15,75,000 0 0	.....	15,75,000 0 0	(b)	15,75,000 0 0	
	Do. do. (2nd instalment of Rs. 5½ Lakhs) ...	4 per cent. ...						
14	25 Lakhs Loan for Sewerage, Water and other Sanitary Works ...	4 per cent. ...	25,00,000 0 0	.....	25,00,000 0 0	(b)	25,00,000 0 0	
15	20 Lakhs Loan for Plague purposes..	4 per cent. ...	20,00,000 0 0	.....	20,00,000 0 0	(b)	20,00,000 0 0	
16	19½ Lakhs Loan for Sewerage, Roads and other Sanitary Works..	4 per cent. ...	19,25,000 0 0	.....	19,25,000 0 0	(b)	19,25,000 0 0	
17	24½ Lakhs Loan for certain Sewerage and Water Works ...	4 per cent. ...	24,75,000 0 0	.....	24,75,000 0 0	(b)	24,75,000 0 0	
18	12½ Lakhs Loan for certain Water Works ...	4 per cent. ...	12,75,000 0 0	.....	12,75,000 0 0	(b)	12,75,000 0 0	
19	The 2nd 24½ Lakhs Loan for certain Sewerage Works ...	4 per cent. ...	24,75,000 0 0	.....	24,75,000 0 0	(b)	24,75,000 0 0	
20	13½ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries ...	4 per cent. ...	13,50,000 0 0	.....	13,50,000 0 0	(b)	13,50,000 0 0	
21	The 15 Lakhs Loan for Street Improvements ...	4 per cent. ...	15,00,000 0 0	.....	15,00,000 0 0	(b)	15,00,000 0 0	
22	The 30 Lakhs Loan for the acquisition of sites for the construction of different Overbridges in the City ...	4 per cent. ...	30,00,000 0 0	.....	30,00,000 0 0	(b)	30,00,000 0 0	
23	The 55 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous Works ...	4 per cent. ...	55,00,000 0 0	.....	55,00,000 0 0	(b)	55,00,000 0 0	
24	The 70 Lakhs Loan for re-duplication of Tansa Main and other Auxiliary Works ...	4 per cent. ...	70,00,000 0 0	.....	70,00,000 0 0	(b)	70,00,000 0 0	
25	The 20 Lakhs Loan for Street Improvements ...	4 per cent. & extra ½ " " on Rs. 14 Lakhs.	20,00,000 0 0	.....	20,00,000 0 0	.....	20,00,000 0 0	
26	The 48 Lakhs Loan for Drainage, Water, Roads and Miscellaneous Works.	4 per cent. & extra ½ " " on Rs. 26 Lakhs.	43,00,000 0 0	.....	43,00,000 0 0	.....	43,00,000 0 0	
Total of Loans raised from the Public ...			Rs. ...	7,22,08,500 0 0		7,22,08,500 0 0	1,37,000 0 0	7,20,71,500 0 0
GRAND TOTAL ...			Rs. ...	7,44,00,774 15 9		7,44,00,774 15 9	1,63,780 8 0	7,42,36,994 7 9

W. E. WAITE,

Chief Accountant.

No. 9.

the sums set aside as Sinking Fund at 31st March 1917.

Interest paid in 1916-17.			Total of columns Nos. 6 and 8.			REMARKS.					
8			9								
Rs.	a.	p.	Rs.	a.	p.						
87,195	8	0	1,13,976	0	0	(a) The amount stipulated to be paid off on 1st January 1917 was Rs. 1,36,000, which, together with unpaid debentures aggregating Rs. 35,000 for the preceding years, aggregated Rs. 1,71,000 against which the debentures actually surrendered for payment up to 31st March 1917 amounted to Rs. 1,37,600. The unpaid balance thus amounts to Rs. 34,000 which is represented by the following debentures:— No. 2368 for Rs. 500 repayable on 1st January 1906, Nos. 2780 to 2783, 2804 to 2815 for Rs. 500 each, repayable on 1st January 1909, No. 2984 repayable on 1st January 1910, No. 3386 repayable on 1st January 1912, Nos. 4088 to 4086 and 4246 to 4249 for Rs. 500 each, repayable on 1st January 1916, Nos. 4499 to 4508 for Rs. 500 each repayable on 1st January 1916, and Nos. 4553 to 4556, 4573, 4584, 4592, 4694 to 4704, 4760, 4764 and 4779 to 4784 for Rs. 500 each repayable on 1st January 1917. The unpaid debentures do not carry interest beyond the due date and will be repaid from the renewed grant when the holders apply for payment. (b) As under the terms of these Loans the bonds cannot be repaid to the holders before the dates stipulated in the debentures, the Sinking Fund has been invested as under:—					
						Amount of Sinking Fund invested upto 31st March 1916.	Sinking Fund Instalments paid in 1916-17.	Interest accumulations invested in 1916-17.	Total.		
						Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		
21,750	0	0	1,58,750	0	0	I.—5 per cent. Loans.					
						44 Lakhs Sanitary Works Loan	22,42,501 16 11	49,875 10 2	95,593 4 0	23,78,970 14 1	
						7 Do. do. do. do.	3,60,661 1 6	8,345 2 11	14,897 4 2	3,88,908 8 7	
1,84,100	0	0	1,84,100	0	0	147 Do. Tansa Water Works Loan	20,74,979 8 6	64,104 1 11	86,072 15 3	22,25,156 9 8	
						12 Do. Drainage and Water Works Loan	6,32,380 4 11	12,644 10 0	26,554 12 9	6,71,579 11 8	
38,837	8	0	38,837	8	0	Rs. 10,08,500 Miscellaneous Works Loan	4,96,731 0 9	11,475 8 2	21,267 13 2	5,29,474 1 1	
						Rs. 2,48,000 Agripada House Sullage Water Connections Loan	1,20,708 6 2	2,666 9 3	5,038 4 11	1,28,418 4 4	
7,36,050	0	0	7,36,050	0	0	35 Lakhs Various Sanitary Works Loan	15,25,278 0 2	43,124 4 9	63,226 14 9	16,31,624 3 8	
						8 Do. Municipal Office Building Loan	3,32,955 15 5	9,034 15 8	14,074 15 0	3,56,065 14 1	
61,075	0	0	61,075	0	0	Total I	77,86,191 5 4	1,92,270 9 10	3,26,726 4 0	83,05,188 3 2	
49,200	0	0	49,200	0	0	5,18,996 13 10					
						In 5 and 4 per cent. Municipal and 4 per cent. Improvement Trust Debentures and in 3½ per cent. Govt. Paper at par lodged with the Bank of Bombay	77,86,000 0 0	5,19,000 0 0		83,05,000 0 0	
12,312	8	0	12,312	8	0	Cash deposited with the Bank of Bombay	191 5 4	— 3 2 2		188 3 2	
1,84,300	0	0	1,84,300	0	0	II.—4 per cent. Loans. (3½ per cent. basis).					
40,000	0	0	40,000	0	0	4½ Lakhs Fire Brigade Quarters and Stations Loan...	2,98,361 2 10	3,320 5 3	10,911 15 10	3,17,593 7 11	
17,780	0	0	17,780	0	0	42 Lakhs Loan for repayment of Balance of Government Consolidated Loan	26,56,914 10 8	81,501 9 0	95,829 14 0	28,34,246 1 8	
						23½ Lakhs Loan for Drainage and other Works	7,74,438 9 7	27,536 4 2	27,971 18 6	8,29,946 11 3	
1,70,140	0	0	1,70,140	0	0	15½ Lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (2nd instalment)	1,83,445 15 4	8,223 8 4	6,629 11 0	1,98,299 2 8	
92,680	0	0	92,680	0	0	25 Lakhs Loan for Sewerage, Water, &c., Works	6,11,814 2 7	29,248 5 4	22,164 1 4	6,63,226 9 3	
						20 Lakhs Loan for Plague purposes	13,94,710 11 1	69,563 6 3	51,606 10 10	15,15,830 12 2	
						19½ Lakhs Loan for Sewerage, Roads and other Sanitary Works... ..	4,42,372 13 10	22,181 8 2	16,547 6 6	4,81,101 12 6	
						24½ Lakhs Loan for Sewerage and Water Works	4,31,805 8 7	28,711 14 7	16,970 9 2	4,76,487 11 4	
73,917	8	0	73,917	8	0	12½ Lakhs Loan for certain Water Works	3,21,475 12 6	24,525 6 6	11,929 0 7	3,67,930 3 7	
						2nd 24½ Lakhs Loan for Sewerage Works	The Sinking Fund of this Loan is shown under a separate head below it having been decided that the investments should be in a 3 per cent. basis.				
59,900	0	0	59,900	0	0	Total II	71,25,339 2 0	2,99,812 8 7	2,59,561 2 9	76,84,712 8 4	
78,820	0	0	78,820	0	0	5,59,373 6 4					
74,820	0	0	74,820	0	0	In 4 per cent. Municipal and Improvement Trust Debentures and in 3½ per cent. Govt. Paper lodged with the Bank of Bombay	71,25,168 2 0	5,59,500 0 0		76,84,668 2 0	
97,200	0	0	97,200	0	0	Cash deposited with the Bank of Bombay	171 0 0	— 126 9 8		44 6 4	
58,140	0	0	58,140	0	0	III.—4 per cent. Loans (3 per cent. basis).					
1,25,870	0	0	1,25,870	0	0	2nd 24½ Lakhs Loan for Sewerage Works	3,37,682 6 9	32,808 2 1	9,293 4 6	3,79,783 13 4	
53,740	0	0	53,740	0	0	15½ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries	2,21,645 4 6	28,325 2 9	6,140 13 11	2,56,111 5 2	
58,070	0	0	58,070	0	0	15 Lakhs Loan for Street Improvements	1,31,149 8 6	19,863 11 0	3,707 2 1	1,54,720 5 7	
						30 Lakhs Loan for acquisition of sites for Overbridges	2,59,702 1 5	39,110 9 10	7,334 11 5	3,06,147 6 8	
1,16,280	0	0	1,16,280	0	0	55 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous Works	2,50,676 1 1	1,21,568 2 9	9,025 11 6	3,81,269 15 4	
						70 Lakhs Loan for re-duplication of Tansa Main and other auxiliary works	79,320 15 1	78,148 0 0	3,338 3 7	1,60,807 2 8	
						20 Lakhs Loan for Street Improvements	26,524 0 0		411 5 9	26,935 5 9	
2,20,540	0	0	2,20,540	0	0	43 Lakhs Loan for Drainage Water, Roads and Miscellaneous Work	90,382 0 0		1,401 10 1	91,783 10 1	
2,78,246	15	5	2,78,246	15	5	Total III	12,80,176 5 4	4,36,729 12 5	40,352 14 10	17,57,559 0 7	
82,360	0	0	82,360	0	0	5,77,382 11 3					
15,951	11	0	15,951	11	0	In 3 per cent. Government Paper, etc., lodged with the Bank of Bombay	12,80,000 0 0	4,77,500 0 0		17,57,500 0 0	
1,72,000	0	0	1,72,000	0	0	Cash deposited with the Bank of Bombay	176 5 4	— 117 4 9		59 0 7	
27,218	12	0	27,218	12	0	IV.—3½ per cent. Loans.					
32,41,299	14	5	32,41,299	14	5	15½ Lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (1st instalment)	3,13,173 11 4	9,876 2 8	11,219 14 0	3,34,269 12 0	
						In 3½ per cent. Government Paper, etc., lodged with the Bank of Bombay					
33,28,495	6	5	34,92,275	14	5		3,13,001 9 0	21,096 0 8		3,34,001 9 0	
						Cash deposited with the Bank of Bombay	172 2 4	21,000 0 0		268 3 0	
						GRAND TOTAL I, II, III and IV	1,65,04,880 8 0	9,38,688 12 6	6,38,160 3 7	1,80,81,729 8 1	

P. W. MONIE,

Municipal Commissioner.

Appendix

SINKING

STATEMENT showing the Actual Investments on account of the Sinking Fund of Different
that date on the basis

NAME OF LOAN.	Amount raised.	When repayable.	Amount of Annual Sinking Fund Instalment.	Date when Sinking Fund commenced.
1	2	3	4	5
<i>5 per cent. Municipal Loans.</i>				
	Rs.	Rs.	Rs.	
44 Lakhs Sanitary Works Loan ...	44,00,000	1st July 1886 7,000 1st " 1887 4,48,000 1st " 1890 51,000 1st " 1895 1,60,000 1st " 1925 57,39,000	† 41,872	 *
7 Lakhs Sanitary Works Loan ...	7,00,000	1st February 1928 ...	8,170	1st February 1889...
147 Lakhs Tansa Water Works Loan ...	1,47,00,000	(a) Between 1st January 1928 and 1st Jan. 1953.	66,040	1st January 1893 ...
12 Lakhs Drainage and Water Works Loan.	12,00,000	1st January 1928 ...	(b) 12,616	1st January 1889 ...
Rs. 10,08,500 Miscellaneous Works Loan.	10,08,500	1st October 1928 ...	11,940	1st October 1889 ...
Rs. 2,48,000 Agripada House Sullage Water Connections Loan.	2,48,000	1st July 1929 ...	2,659	1st January 1891 ...
35 Lakhs various Sanitary Works Loan.	35,00,000	1st July 1930 ...	43,061	1st July 1891 ..
8 Lakhs Municipal Office Building Loan.	8,00,000	1st July 1931 ...	9,293	1st July 1892 ...
4 per cent. and 3½ per cent. Municipal Loans (3½ per cent. basis.)				
4½ Lakhs Fire Brigade Quarters and Stations Loan.	4,50,000	1st January 1923 ...	8,570	1st January 1894 ...
42 Lakhs Loan for the repayment of the balance of Government Consolidated Loan.	42,00,000	1st July 1923 ...	80,678	1st July 1894 ...
23½ Lakhs Loan for Drainage and other Works.	23,25,000	1st July 1935 ...	27,467	1st July 1896 • ...
15½ Lakhs Loan for Sewerage, Wari Bunder, etc., Roads, Burial Ground and certain Water Works—				
1st Instalment	10,00,000		(c) 11,147	
2nd do.	5,76,000	1st July 1936 ...		1st July 1897 ...
25 Lakhs Loan for Sewerage, Water, etc., Works.	25,00,000	1st November 1939 ...	7,286 29,535	1st November 1900.
20 Lakhs Loan for Plague purposes ...	20,00,000	1st May 1920 ...	70,482	1st May 1901 ...
19½ Lakhs Loan for Sewerage Roads and other Sanitary Works.	19,25,000	1st June 1940 ...	22,698	1st June 1901 ...
24½ Lakhs Loan for certain Sewerage and Water Works.	24,75,000	1st June 1943 ...	29,286	1st June 1904 ...
12½ Lakhs Loan for certain Water Works.	12,75,000	1st August 1934 ...	24,698	1st August 1905 ...
4 per cent. Municipal Loans (3 per cent. basis.)				
2nd 24½ Lakhs Loan for Sewerage Works.	24,75,000	1st August 1946 ...	32,823	1st August 1907 ...
18½ Lakhs Loan for the construction of Quarters for Malakhores and Big-garies.	18,50,000	1st May 1938 ...	28,376	1st May 1909 ...
15 Lakhs Loan for Street Improvements.	15,00,000	1st May 1949 ...	19,893	1st May 1910 ...
30 Lakhs Loan for the acquisition of sites, for the construction of various overbridges in the City.	30,00,000	1st May 1949 ...	39,787	1st November 1910.
55 Lakhs Loan for Miscellaneous Works.	55,00,000	1st June 1942 ...	1,21,632	1st June 1914 ...
70 Lakhs Loan for reduplication of Tansa Main and other auxiliary works.	70,00,000	 ¶	78,148	1st June 1915 ...
20 Lakhs Loan for Streets Improvements	20,00,000	1st May 1955 ...	26,524	1st May 1916 ...
43 Lakhs Loan for Drainage, Water, and Miscellaneous Works.	43,00,000	1st May 1945 ...	90,382	1st May 1916 ...
				Total Rs. ...

¶ Rs. 49,40,000 repayable on 1st June 1954.
" 20,60,000 " " 1st June 1974.

Rs. 70,00,000

W. E. WAITE,
Chief Accountant.

No. 10.**FUND.**

Loans up to 31st March 1917, compared with the amounts which should have accumulated up to of the Fixed Instalments.

Amount of Sinking Fund which should have accumulated up to 31st March 1917 at Compound Interest.	Amount actually invested up to 31st March 1917.	Amount of Interest due up to 31st March 1917 collected and invested in 1917-18.	Total of Columns 7 and 8.	REMARKS.
6	7	8	9	10
Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
24,20,907	23,78,970 14 1	39,443 1 0	24,18,413 15 1	† All the Sinking Fund Instalments were re-arranged during 1906-07 on a 3½ per cent. basis as per Corporation Resolution No. 4946 of 8th February 1905. * As Rs. 6,61,000 of this Loan were paid off by 31st December 1895, leaving a balance of Rs. 37,39,000 repayable on 1st July 1925, and as the Invested Sinking Fund on 31st March 1896 amounted to Rs. 4,51,047-15-5, the amount of the Annual Sinking Fund Instalment was reduced from Rs. 37,000 to Rs. 30,550 from 1st January 1897. (α) Rs. 2,00,000 repayable on 1-1-1928. " 52,91,500 " " 1-1-1883. " 22,08,500 " " 1-1-1946. " 17,00,000 " " 1-1-1946. " 10,00,000 " " 1-1-1946. " 48,00,000 " " 1-1-1953. (b) In January 1889 Rs. 10,000 were invested and in subsequent years Rs. 11,000. (c) In 1897-98 Rs. 12,875 were invested in 3½ per cent. Government Paper.
3,90,037	3,83,903 8 7	5,782 7 9	3,89,686 0 4	
22,56,572	22,25,156 9 8	34,166 13 3	22,59,323 6 11	
6,82,615	6,71,579 11 8	10,678 15 9	6,82,258 11 5	
5,37,121	5,29,474 1 1	8,849 5 2	5,38,323 6 3	
1,30,513	1,28,413 4 4	2,028 4 11	1,30,441 9 3	
16,56,625	16,31,624 3 8	24,162 11 0	16,55,786 14 8	
3,61,198	3,56,065 14 1	5,513 11 10	3,61,579 9 11	
3,21,141	3,17,593 7 11	3,984 7 0	3,21,577 14 11	
28,70,831	28,34,246 1 8	34,908 12 5	28,69,154 14 2	
8,40,236	8,29,946 11 3	10,176 15 11	8,40,123 11 2	
3,37,382	3,34,269 12 0	3,533 4 0	3,37,803 0 0	
2,00,709	1,98,299 2 8	2,407 12 9	2,00,706 15 5	
6,71,597	6,65,226 9 3	8,883 0 10	6,72,109 10 1	
15,34,235	15,15,880 12 2	19,885 15 7	15,35,766 11 9	
4,86,818	4,81,101 12 6	6,322 4 8	4,87,424 1 2	
4,81,330	4,76,487 11 4	6,090 8 5	4,82,578 3 9	
3,70,718	3,67,980 3 7	3,553 9 8	3,71,433 13 3	
3,83,802	3,79,783 13 4	4,253 13 6	3,84,037 10 10	
2,59,268	2,56,111 5 2	3,228 4 7	2,59,339 9 9	
1,56,621	1,54,720 5 7	1,938 6 0	1,56,658 11 7	
3,08,676	3,06,147 6 8	3,837 12 5	3,09,985 3 1	
3,81,617	3,81,269 15 4	4,141 5 10	3,85,411 5 2	
1,61,434	1,60,807 2 8	1,811 11 1	1,62,618 13 9	
27,253	26,935 5 9	386 5 3	27,271 11 0	
92,868	91,783 10 1	1,147 5 4	92,980 15 5	
183,21,654	1,80,81,729 8 1	2,51,067 2 0	1,83,32,796 10 1	

P. W. MONIE,
Municipal Commissioner.

Appendix

STATEMENT showing the Interest outstanding on 1st April 1916 on the different of Bombay during that year, and the

		AUTHORITY.	
Name of each Loan.	Dates when raised.	Corporation Resolution.	Government Resolution.
5 per cent. Loans.			
1 Drainage Loan of 1878 (Rs. 26,94,000) ...	1st November and 1st December 1878.	No. 1296 10-9-78.	No. 2951 28-9-78.
2 The Sanitary Works Loan of 1885-86 (Rs. 44,00,000).	Between 5th May 1885 and 30th March 1886.	Nos. 9021 8-12-81, 498 16-5-83	Nos. 2669 17-7-82, 460 4-2-84
3 The Sanitary Works Loan of 1888 (Rs. 7,00,000).	1st February 1888 ...	No. 991 13-10-86.	No. 1427 4-5-88.
4 The Tansa Water Works Loan (Rs. 1,47,00,000).	Between 5th June 1886 and 24th December 1891.	Nos. 1312 13-11-85 and 345 9-4-91.	Nos. 561 12-2-86, 2876 21-9-87, 3392 23-8-90
5 The Drainage and Water Works Loan of 1888 (Rs. 12,00,000).	1st January and 1st July 1888 ...	Nos. 894 20-7-87 and 1145 8-3-87.	No. 873 16-3-88.
6 The Miscellaneous Works Loan, 1888-89 (Drainage and Water Works, Markets and Roads) (Rs. 10,08,500.)	Between 1st November 1888 and 1st July 1889.	No. 29 4-4-88.	Nos. 4937 7-9-88, 19-9-89, 24-11-89
7 The Agripada House Sullage and Water Connections Loan of 1889-90 (Rs. 2,43,000).	Between 1st January and 1st July 1890.	No. 4688 8-10-86.	Nos. 6547 28-12-89 and 17 3-1-90.
8 The Various Sanitary Works Loan of 1890-91 (Rs. 35,00,000).	Between 25th September 1890 and 1st January 1892.	Nos. 29 4-4-88, 5293 572, 19-11-88, 5152 18-5-89, 25-11-89, 23-1-90, 433 17-4-90 and 11651 9-2-91.	No. 3392 23-8-90.
9 The Municipal Building Loan of 1891 (Rs. 8,00,000).	24th December 1891 ...	No. 11651 9-2-91.	No. 3262 15-9-91.
4 per cent. Loans.			
10 The Loan for Fire Brigade Quarters and Stations (Rs. 4,50,000).	23rd December 1892, 30th November and 1st December 1893.	No. 5144 8-8-92.	Nos. 1023 29-3-92, 14-6-92, 28-6-92 and 2501 3145 6-9-92.
11 The Loan for repayment of the balance of the 4½ per cent. Government Consolidated Loan (Rs. 42,00,000).	28th and 29th June 1893 ...	No. 13956 23-3-93.	No. 1989 6-6-93.
12 The Loan for Drainage and other Works (Rs. 23,25,000).	12th and 31st January 1894 and 11th and 15th July 1895.	No. 6222 28-9-93.	Nos. 809 3-3-94 and 3764 8-10-94.
13 The Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground, and certain Water Works (Rs. 15,75,000 of which the 2nd instalment of Rs. 5,75,000 was raised at 4 per cent.).	17th July 1899 ...	Nos. 504 12-4-94, 13697 8976, 7-3-95, 7-11-95, 12034/5 7-11-95, 14435 25-3-97.	Nos. 3501 22-8-95, 22-2-96, 2643 and 883 23-6-99.
14 The Loan for Sewerage and other Sanitary Works (Rs. 25,00,000).	17th and 18th July 1899 ...	Nos. 8976 7-11-95, 14435 25-3-97.	Nos. 3841 A 28-8-97, and 2320 3-6-99.
15 The Loan for Plague purposes (Rs. 20,00,000).	6 lakhs raised between 15th July and 20th Dec. 1899, 6 lakhs raised in Nov. 1900 and 8 lakhs raised between 12th Aug. and 9th Oct. 1902.	No. 8099 6-12-97.	Nos. 4960 5-9-98 and 2560 16-9-99.
16 The Loan for Sewerage, Roads and other Sanitary Works (Rs. 19,25,000).	18th and 19th July 1899 and September 1900.	No. 628 18-4-98.	Nos. 4960 5-9-98 and 2540 16-6-99.
17 The Loan for certain Sewerage and Water Works (Rs. 24,75,000).	6 lakhs raised between 15th June and 1st July 1901, 11 lakhs raised between 23rd Aug. and 31st October 1901, 4 lakhs raised between 19th Aug. and 28th Oct. 1902, and 3½ lakhs raised on 9th Sep. 1903.	No. 1956 14-5-1900.	No. 3427 15-6-1901.
18 The Loan for certain Water Works (Rs. 12,75,000).	1st September 1904 ...	No. 244 23-4-03.	No. 4416 22-8-04.
19 The 2nd 24½ Lakhs Loan for certain Sewerage Works.	Rs. 12 lakhs raised on 3rd September 1905 and Rs. 12½ lakhs on 9th September 1907.	No. 244 23-4-03.	No. 4004 21-7-05 and 31-8-05. No. 4792 5-8-07 and 31-7-07.
20 The 13½ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries.	7th August 1908 ...	No. 2204 of 29-6-08	No. 3447 9-5-08.
21 The 15 Lakhs Loan for Street Improvements.	29th July 1909 ...	No. 7558 of 20-8-07	No. 5178 17-8-08.
22 The 30 Lakhs Loan for the acquisition of sites for the construction of various over-bridges in the City.	29th July 1909, and 10th August 1910.	No. 181 of 8-4-09	No. 3862 28-7-09.
23 The 55 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous works.	7th and 10th August and 1st November 1911 and 1st August 1913.	No. 6426 of 31-1-10	No. 4680 1-8-11 and Telegram No. 4686-A. 28-7-11
24 The 70 Lakhs Loan for the re-duplication of the Tansa Main and other Auxiliary Works.	9th September 1913, 22nd July 1914 and 10th April 1915.	No. 4051 of 14-10-12	No. 6159 21-8-13 and Telegram 18-8-13.
25 The 20 Lakhs Loan for Street Improvement.	9th September 1913 and 24th September 1915.	No. 4047 of 14-10-12	Do.
26 Loan of Rs. 43 Lakhs for Drainage, Water, Roads and Miscellaneous works.	1st August and 24th September 1915.	No. 4051 of 14-10-12 and No. 2608 of 26-7-15.	7586 (G. D.) 1-10-15
3½ per cent. Loan.			
The Loan for Sewerage, Wari Bunder, &c., Board, Burial Ground and certain Water Works (Rs. 15,75,000, of which the 1st instalment of Rs. 10 lakhs was raised at 3½ per cent.)	1st December 1893 ...	(Vide Reso. Nos. against Loan No. 13.) ...	(Vide Reso. Nos. against Loan No. 13) ...

No. 11.

Loans, the amounts payable for the year 1916-1917, the amounts paid by the Bank
Balances outstanding on 31st March 1917.

Date when Loan is repayable.	Interest out- standing on 1st April 1916.	Interest payable in 1916-1917.	Total Interest due.	Deduct—Interest paid by the Bank of Bombay.	Outstanding Balance on 31st March 1917.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1st January 1919... ..	14,187 8 0	21,400 0 0	35,587 8 0	21,750 0 0	13,837 8 0
1st July 1925	25,012 8 0	1,86,950 0 0	2,11,962 8 0	1,84,100 0 0	27,862 8 0
1st February 1928	11,187 8 0	35,000 0 0	46,187 8 0	38,837 8 0	7,350 0 0
Between 1st January 1928 and 1st January 1933.	34,762 8 0	7,35,000 0 0	7,69,762 8 0	7,36,050 0 0	33,712 8 0
1st January 1928	6,925 0 0	60,000 0 0	66,925 0 0	61,075 0 0	5,850 0 0
1st October 1928	6,175 0 0	50,425 0 0	56,600 0 0	49,200 0 0	7,400 0 0
1st July 1929	162 8 0	12,400 0 0	12,562 8 0	12,312 8 0	250 0 0
1st July 1930	25,325 0 0	1,75,000 0 0	2,00,325 0 0	1,84,300 0 0	16,025 0 0
1st July 1931 ... ..	.....	40,000 0 0	40,000 0 0	40,000 0 0	.....
1st January 1923... ..	1,610 0 0	18,000 0 0	19,610 0 0	17,780 0 0	1,830 0 0
1st July 1923	15,380 0 0	1,68,000 0 0	1,83,380 0 0	1,70,140 0 0	13,240 0 0
1st July 1935	5,900 0 0	93,000 0 0	98,900 0 0	92,680 0 0	6,220 0 0
1st July 1936	220 0 0	23,000 0 0	23,220 0 0	22,940 0 0	280 0 0
1st November 1939	280 0 0	1,00,000 0 0	1,00,280 0 0	99,900 0 0	380 0 0
1st May 1920	4,820 0 0	80,000 0 0	84,820 0 0	78,820 0 0	6,000 0 0
1st June 1940	6,220 0 0	77,000 0 0	83,220 0 0	74,820 0 0	8,400 0 0
1st June 1948	5,720 0 0	99,000 0 0	1,04,720 0 0	97,200 0 0	7,520 0 0
1st August 1934	9,750 0 0	51,000 0 0	60,750 0 0	58,140 0 0	2,610 0 0
1st August 1946	28,890 0 0	99,000 0 0	1,27,890 0 0	1,25,870 0 0	2,020 0 0
1st May 1938	4,110 0 0	54,000 0 0	58,110 0 0	58,740 0 0	4,370 0 0
1st May 1949	3,360 0 0	60,000 0 0	63,360 0 0	58,070 0 0	5,290 0 0
1st May 1949	8,609 15 10 [†]	1,20,000 0 0	1,28,609 15 9	1,16,280 0 0	7,329 15 9
1st June 1942	540 0 0	2,20,000 0 0	2,20,540 0 0	2,20,540 0 0	.....
1st June 1954 and 1st June 1974.	8,424 12 2 [†] +1	2,80,000 0 0	2,88,424 12 8 +8	2,78,246 15 5 +1	10,177 12 10 +2
1st May 1955	2,894 10 6	95,986 9 0	98,881 8 6	98,811 11 0	584 10 6 34 14 0
1st May 1945 ... ..	.....	1,99,218 12 0	1,99,218 12 0	1,99,218 12 0	.....
1st July 1936	16,380 0 0	35,000 0 0	51,380 0 0	50,977 8 0	402 8 0
Total Rs. ...	2,41,796 14 8 +0 0 1 [†]	31,88,380 5 0	34,30,177 8 6 +8	32,41,299 14 5 +1	1,88,877 5 1 +2

[†] Difference arising on account of interest for broken period on small holdings.

* Rs. 34-14-0 to be taken as saving.

Rs. 49,40,000 repayable on 1st June 1954.

" 20,60,000 " " 1st June 1974.

Rs. 70,00,000

P. W. MONIE,
Municipal Commissioner.

Appendix No.
WATER WORKS

INCOME FOR 1916-17.

Amount.	
Rs. a. p.	
INCOME.	
Water Tax and other Miscellaneous Water Works Revenue— <i>vide</i> details in Appendix No. 1 (<i>vide</i> page 50) ...	* 24,71,834 4 2
* This includes Rs. 12,55,284-12-6 being the amount of Water Tax by measurement, realized during 1916-17 as shown in the following Statement :—	
Total Rs. ...	24,71,834 4 2

W. E. WAITE,
Chief Accountant.

12. ACCOUNT.

EXPENDITURE FOR 1916-17.

EXPENDITURE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Superintendence (proportion of) (vide note † at page 54)..	42,876 11 3			
Assessment and Collection Charges (proportion of) (vide note † at page 54)	72,397 15 6			
Engineer's Establishment (proportion of) (vide note ‡ at page 56)	16,269 8 4	1,31,044 3 1		
Maintenance of Water Works (vide page 56)		3,58,650 8 7		
New Works (vide note * at page 56)		38,940 0 0		
			5,28,634 11 8	
Interest on Water Works Loans (Debt)—				
Due to Government—Vehar Debt ... ..	.....	87,195 8 0		
Due to the Public—				
Portion of 10 Lakhs for Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878	8,078 7 11			
Water Works portion of the 44 Lakhs Sanitary Works Loan (Rs. 18,98,321)	79,452 8 6			
Water Works portion of the 7 Lakhs Sanitary Works Loan (Rs. 1,90,389)	10,563 3 0			
Water Works portion of the 12 Lakhs Drainage and Water Works Loan (Rs. 85,000)	4,326 2 4			
Tansa Water Works Loan of Rs. 147 lakhs	7,86,050 0 0			
Water Works portion of the Rs. 10,08,500 Miscellaneous Works Loan (Rs. 1,35,000)	6,586 0 3			
Water Works portion of the 35 Lakhs Various Sanitary Works Loan (Rs. 9,20,000)	48,444 9 1			
Water Works portion of the 42 Lakhs Loan for repayment of Government Consolidated Loan (Rs. 28,59,762)	1,15,847 9 6			
Water Works portion of the 23½ Lakhs Loan for Drainage and other Works (Rs. 2,45,500)	9,786 4 0			
Water Works portion of the 15½ Lakhs Loan for Sewerage, Wari Bunder, &c., Works (Rs. 30,000)	1,407 15 2			
Water Works portion of the 25 Lakhs Loan for Sewerage, &c., Works (Rs. 2,31,297)	9,242 10 0			
Water Works portion of the 24½ Lakhs Loan for certain Sewerage and Water Works (Rs. 2,73,000)	10,721 7 3			
12½ Lakhs Loan for certain Water Works (Rs. 12,75,000)	58,140 0 0			
55 Lakhs Loan for Miscellaneous Works (Rs. 4,49,542)	18,025 15 4			
70 Lakhs Loan for Reduplication of the Tansa Main and other auxiliary works	2,78,246 15 5			
Water Works portion of the 43 Lakhs Loan for Drainage, Water, Roads, and Miscellaneous Works (Rs. 2,00,500)	37,156 9 9	14,32,071 5 6		
Commission to the Bank of Bombay for payment of interest on the Water Works portion of the different Loans	6,137 4 9			
Miscellaneous Loan Charges, including Commission paid to the Bank of Bombay for drawing interest on Sinking Fund Investments	391 1 6	6,528 6 3		
			15,23,795 3 9	
Payments towards the reduction of debt or investment of Sinking Fund of the following Water Works Loans:—				
Vehar Debt		26,780 8 0		
Portion of the 10 Lakhs for Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878		50,863 11 11		
Water Works portion of the 44 Lakhs Sanitary Works Loan (Rs. 18,98,321)		17,640 13 1		
Do. do. 7 lakhs Sanitary Works Loan (Rs. 1,90,389)		2,269 12 1		
Do. do. 12 Lakhs Drainage and Water Works Loan (Rs. 85,000)		895 10 6		
Do. do. Rs. 10,08,500 Miscellaneous Works Loan (Rs. 1,35,000)		1,536 1 6		
Tansa Water Works Loan of Rs. 147 Lakhs		64,104 1 11		
Water Works portion of the 35 Lakhs Various Sanitary Works Loan (Rs. 9,20,000)		11,335 11 3		
Do. do. 42 Lakhs Loans for repayment of Government Consolidated Loan (Rs. 28,59,762)		55,494 1 0		
Do. do. 23½ Lakhs Loan for Drainage and other Works (Rs. 2,45,500)		2,907 9 5		
Do. do. 15½ Lakhs Loan for Sewerage, Wari Bunder, &c., Works (Rs. 30,000)		344 12 1		
Do. do. 25 Lakhs Loan for Sewerage, &c., Works (Rs. 2,31,297)		2,706 0 3		
Do. do. 24½ Lakhs Loan (Rs. 2,73,000)		3,167 0 2		
Do. do. 12½ „ „		24,525 6 6		
Do. do. 55 „ „ (Rs. 4,49,542)		9,936 5 9		
70 Lakhs Loan for Reduplication of the Tansa Main and other auxiliary works		78,143 0 0		
43 Lakhs Loan for Drainage, Water, Roads and Miscellaneous Works (Rs. 2,00,500)		4,214 5 2	3,56,859 14 7	
				24,11,289 14 0
Balance—Income in Excess of Expenditure				60,544 6 2
				24,71,834 4 2

P. W. MONIE,
Municipal Commissioner.

Appendix
WATER WORKS
SCHEDULE OF LIABILITIES AND

LIABILITIES.	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Debt due to Government—									
Government of Bombay on account of Vihar Debt (see page 88)				21,65,494	7	9			
Debt due to the Public—									
Portion of 10 lakhs for the Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878	1,21,009	10	5						
Water Works portion of the 44 lakhs Sanitary Works Loan.	16,13,651	4	7						
Water Works portion of the 7 lakhs Sanitary Works Loan.	1,90,389	0	0						
Water Works portion of the 12 lakhs Drainage and Water Works Loan	85,000	0	0						
Water Works portion of the Miscellaneous Works Loan of Rs. 10,08,500	1,35,000	0	0						
Water Works portion of the 35 lakhs Various Sanitary Works Loan	9,20,000	0	0						
Tansa Water Works Loan of 147 lakhs	1,47,00,000	0	0						
Water Works portion of the 42 lakhs Loan for repayment of the balance of Government Consolidated Loan ...	28,59,762	0	0						
Water Works portion of the 23½ lakhs Loan for Drainage and other Works	2,45,500	0	0						
Water Works portion of the 15½ lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works	30,000	0	0						
Water Works portion of the 25 lakhs Loan for Sewerage, Roads and other Works	2,31,297	0	0						
Water Works portion of the 24½ lakhs loan for certain Sewerage and Water Works	2,73,000	0	0						
12½ Lakhs Loan for certain Water Works	12,75,000	0	0						
Water Works portion of the 55 Lakhs Loan for Mis. Works.	4,49,542	0	0						
70 Lakhs Loan for the Reduplication of the Tansa Main and other Auxiliary Works	70,00,000	0	0						
Water Works portion of 48 Lakhs Loan for Miscellaneous Works	2,00,500	0	0						
				3,03,29,650	15	0	3,24,95,145	6	9
II.—AMOUNT ADVANCED FROM SURPLUS LOAN BALANCES ...							1,26,280	11	5
III.—SINKING FUNDS ON MUNICIPAL LOANS (invested as per contra)							66,04,909	12	6
IV.—SPECIAL FUNDS—									
Worn-out Water Mains Renewal Fund (invested as per contra)				5,95,119	11	2			
Net Premia Fund (invested as per contra)				79,723	13	10			
							6,74,843	9	0
V.—CAPITAL ACCOUNT—									
General Reserve being Assets in excess of Liabilities ...							58,31,611	15	2
TOTAL RS.							4,57,32,791	6	10

W. E. WAITE,
Chief Accountant.

No. 13.
ACCOUNT.

ASSETS AT 31ST MARCH 1917.

ASSETS.		R ^s .	a.	p.	R ^s .	a.	p.	R ^s .	a.	p.
Properties—										
Water Works executed out of Loan and Reserve Funds as detailed at pages 82 to 86 (<i>vide</i> Appendix No. 8.) ...								(a) 3,84,53,038	1	4
II. Investments—										
1. Bank of Bombay, Municipal Loans Sinking Fund Deposit Accounts—										
	R ^s .	a.	p.							
5 per cent, Loans 39,08,602			4 8							
4 " 26,91,279			6 3							
3½ " 10,028			1 7							
					66,04,909	12	6			
2. Bank of Bombay—Worn-out Water Mains Renewal Fund Deposit Account (<i>vide</i> page 59) 					5,95,119	11	2			
3. Bank of Bombay—Net Premia on different Municipal Loans Deposit Account (<i>vide</i> note † at page 59) ...					79,728	13	10			
								72,79,573	5	6
4. Loan Funds Investments Deposits (<i>vide</i> note ‡ at page 67) 					54,273	15	11			
Amount advanced from Surplus Loan balances per contra.					1,26,280	11	5			
					1,80,554	11	4			
Less—Value of properties (Water Works) executed out of Loan Funds Advances (<i>vide</i> note ¶ at page 69) 					1,80,554	11	4	.....	72,79,753	5 6
TOTAL RS.									4,57,32,791	6 10

P. W. MONIE,
Municipal Commissioner.

133767

Appendix No. 14.

STATEMENT showing the New Works financed from Surplus Cash (Revenue) Balance pending adjustment against savings in Loan Works already completed or inclusion in a New Loan to be raised hereafter.

Serial No.	PARTICULARS OF WORK.	Amount sanctioned.	Amount of expenditure adjusted against Loan Funds.	Balance.		Actual expenditure incurred up to 31st March 1917 to be adjusted hereafter.	REMARKS.
				Required for expenditure.	Not required.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	Construction of King Edward VII Memorial Hospital (Municipal share of the cost)... ..	2,97,697 7 7	.....	2,132 0 0	.....	2,95,565 7 7	
	Widening and reconstructing Mahim Bazaar Road	4,00,000 0 0	.....	1,35,194 8 4	.. .....	2,64,805 7 8	
	Widening of Church Gate Street and Armenian Lane and construction of a new straight road from the junction of Esplanade Road and Armenian Lane eastwards to Tamarind Lane;—						
	Total cost including the purchase of frontages	17,00,000 0 0	.....	17,00,000 0 0	.....	.....	
	<i>Less—</i>						
	Amount to be recovered by the sale of frontages	10,00,000 0 0	.....	10,00,000 0 0	.....	.....	
		7,00,000 0 0	.....	7,00,000 0 0	.....	.....	
	Widening and draining Wandby Road	46,000 0 0	.....	46,000 0 0	.....	.....	
	Paving Frere Road with Indian Wood paving blocks (experimental)	50,000 0 0	.....	50,000 0 0	.....	.....	
	Cost of a plot of land at Clerk Road required for the use of the Road Department for stacking materials, parking carts, &c. ...	24,300 0 0	.. .....	.....	.....	24,300 0 0	
	Carried over Rs. ...	15,17,997 7 7	.....	9,33,336 8 4	.....	5,84,670 15 3	

Appendix No. 14—concluded.

Serial No.	PARTICULARS OF WORK.	Amount sanctioned.	Amount of expenditure adjusted against Loan Funds.	Balance		Actual expenditure incurred up to 31st March 1917 to be adjusted hereafter.	REMARKS.
				Required for expenditure.	Not required.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	Brought forward Rs. ...	15,17,997 7 7	.....	9,83,326 8 4	.....	5,84,670 15 3	
	Constructing a S. W. Drain 2' x 2' x 6' in Thakurdwar Road, between Queen's Road and Girgaum Road... ..	20,920 0 0	.....	20,920 0 0	.....	.....	
	Tansa Reduplication and Auxiliary Works :—						
	Duplicating Syphons Nos. 1 to 7.	4,338 0 0	.....	6,201 15 2	.....	Cr. 1,863 15 2	
	Duplicating Syphon No. 8 ...	2,663 3 0	.....	1,751 2 0	.....	913 1 0	
	Distributing mains in the City.	34,997 5 4	.....	10,124 7 0	.....	24,872 14 4	
	Raising Tansa Dam	1,460 0 0	.....	586 5 3	.....	873 10 9	
	Reservoir at Golanji Hill (Contingent expenses)	3,783 6 6	.....	.....	.....	3,783 6 6	
	Miscellaneous expenses in connection with the removal of the villages in the Tansa Catchment area	500 0 0	.....	463 7 0	.....	36 9 0	
	Amount payable to the G. I. P. Railway as Municipal contribution towards the cost of extending the Tansa Main overbridge at Ghatkoper on account of the quadrupling of the Railway lines	25,000 0 0	.....	25,000 0 0	.....	.....	
	Filling in the Roman Catholic Cemetery at Haines Road and acquisition of additional land therefor, including compound wall, drainage arrangements, &c.	50,500 0 0	.....	50,205 0 0	.....	295 0 0	
		16,62,159 6 5	.....	10,48,578 12 9	.....	6,13,580 9 8	

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

Appendix

STATEMENT showing the quantity and value of several articles upon which Town Duty was

Duty Collected by	GRAIN AND PULSE AT 6 ANNAS PER CANDY.			FLOUR OF ALL SORTS AT 75 PER CENT. OF THE RATE AT THE TIME BEING LEVIED ON THE GRAIN FROM WHICH FLOUR IS PREPARED.			WINES AND SPIRITS AT 4 ANNAS PER GALLON.			BEER AT 6 PIES PER GALLON.		
	Candies.	Furras.	Amount of Duty.	Candies.	Furras.	Amount of Duty.	Gallons.	Pints.	Amount of Duty.	Gallons.	Pints.	Amount of Duty.
BOMBAY PORT TRUST.												
			Rs. a. p.			Rs. a. p.			Rs. a. p.			Rs. a. p.
April 1916	1,27,645	5	47,867 1 9	364	0	102 6 0	74,582	53	18,645 10 10	76,989	0	2,387 2 6
May	1,18,692	3	44,509 10 3	165	6	46 10 0	1,21,485	43	30,371 6 2	1,33,928	0	4,185 4 0
June	42,415	4	15,905 13 3	215	3	60 8 0	89,106	3	22,276 8 2	1,30,961	0	4,092 8 6
July	76,898	3	26,553 0 3	595	3	167 12 0	1,02,780	3	25,695 3 3	91,987	4	2,874 8 9
August	50,403	3	18,901 4 6	488	5	137 7 0	1,09,640	1	27,410 0 10	1,65,475	0	5,171 1 6
September	14,324	7	5,371 13 8	210	7	59 5 0	98,517	5	24,629 6 8	1,19,788	0	3,743 6 0
October	19,761	4	7,410 6 6	23	6	9 0 0	1,10,660	1	27,665 0 9	4,996	0	1,343 10 0
November	38,889	4	14,576 1 6	9	4	2 12 0	74,104	1	18,526 0 5	93,621	4	2,925 10 9
December	1,08,811	5	38,929 5 7	143	4	47 6 0	1,03,926	1	25,981 8 6	54,971	1	1,717 13 7
January 1917	87,376	4	32,766 4 0	35	7	9 14 0	92,993	5	23,248 6 7	94,290	0	2,946 9 0
February	1,55,248	3	58,218 2 3	1	0	0 5 0	85,791	5	21,447 14 8	51,522	1	1,610 1 1
March	1,52,460	2	67,172 10 0	....	..	....	1,12,462	7	28,115 11 6	1,04,657	4	3,395 8 9
Total	9,81,817	4	3,68,181 9 1	2,258	6	638 14 0	11,76,051	4	2,94,012 14 4	11,64,586	8	36,398 5 5
G. I. P. RAILWAY.												
April 1916	1,74,494	5	65,435 8 0	0	5	0 3 0	739	4	182 6 0	2,496	0	78 0 0
May	1,48,764	2	55,786 10 0	0	3	0 2 0	947	0	236 12 0	11,120	0	347 8 0
June	62,994	3	23,622 15 0	0	1	0 1 0	1,62	0	265 8 0	16,648	0	520 4 0
July	1,11,779	0	41,917 2 0	1	6	0 8 0	1,079	0	269 12 0	6,404	0	200 2 0
August	92,752	4	34,782 3 0	0	7	0 4 0	660	0	165 0 0	10,400	0	325 0 0
September	1,26,838	5	47,481 14 0	0	3	0 2 0	1,251	0	312 12 0	10,400	0	325 0 0
October	1,01,438	2	38,039 8 0	2	3	0 11 0	5,534	0	1,383 8 0	6,240	0	196 0 6
November	1,79,349	0	67,265 14 0	23	4	6 10 0	421	2	105 5 0	13,126	0	407 1 0
December	1,81,752	5	68,157 4 0	0	7	0 4 0	1,366	0	814 0 0	10,380	0	322 18 0
January 1917	1,22,497	5	45,936 10 0	0	3	0 2 0	489	0	109 12 0	12,394	0	337 5 0
February	1,20,436	1	45,163 9 0	0	7	0 4 0	1,966	0	491 8 0	10,400	0	325 0 0
March	74,441	0	27,915 6 0	20	7	5 14 0	762	2	190 9 0	8,736	0	273 0 0
Total	14,97,238	3	5,61,464 7 0	53	4	15 1 0	16,107	0	4,026 12 0	1,18,594	0	3,706 1 0
B. B. & C. I. RY.												
April 1916	40,778	5	15,292 0 0	428	4	119 2 0	1,559	0	389 12 0	....	..	....
May	29,282	5	10,980 14 0	412	7	118 2 0	757	0	196 12 0	....	..	....
June	16,009	6	6,008 11 0	190	5	53 10 0	189	0	34 12 0	....	..	....
July	31,889	2	11,958 9 0	157	4	44 8 0	1,402	0	350 8 0	2,288	0	71 8 0
August	84,606	2	12,989 14 0	408	6	113 9 0	1,346	0	336 8 0	2,078	0	64 15 0
September	29,707	5	11,140 6 0	1,644	0	462 6 0	990	0	247 8 0	....	..	....
October	19,170	4	7,168 15 0	1,850	5	514 14 0	2,706	4	676 10 0	2,678	0	83 11 0
November	31,588	4	11,844 9 0	1,755	4	493 12 0	2,839	0	709 12 0	1,856	0	58 0 0
December	45,416	6	17,431 5 0	3,013	6	847 10 0	2,115	0	529 12 0	4,362	0	136 5 0
January 1917	60,859	5	22,634 14 0	4,468	7	1,256 14 0	3,878	0	969 8 0	812	0	25 6 0
February	27,968	1	10,488 1 0	2,015	2	566 13 0	3,394	0	847 8 0	2,110	0	65 15 0
March	52,004	0	19,501 18 0	3,119	9	877 4 0	3,462	0	866 8 0	3,084	0	96 6 0
Total	4,18,679	6	1,57,004 15 0	19,435	2	5,466 8 0	24,617	4	6,154 6 0	19,288	0	602 2 0
GRAND TOTAL ..	28,97,735	5	10,86,680 15 1	21,742	5	6,115 2 0	12,16,776	5	3,04,194 0 4	13,02,448	8	40,701 8 5
Deduct—												
Refunds passed by the Revenue and Refund Audit Officer	13,97,981	6	5,24,243 8 0	2,59,672	1	73,032 18 0	1,21,035	4	30,258 14 0	5,47,921	0	17,122 10 0
Net Revenue ..	14,99,753	7	5,62,437 12 1	....	..	....	10,95,740	3	2,73,935 2 4	7,54,524	6	23,578 14 5
Excess Refund over Collec- tion .. ..	..	..	....	-2,37,929	4	-66,917 11 0	....	..	....	....	..	....

ABSTRACT.

Balance of collections on 31st March 1916 due by—	Rs. a. p.	Rs. a. p.
Port Trust	4,852 11 3	
G. I. P. Railway	58,881 12 6	
B. B. & C. I. Railway	1,970 6 0	
Add—		65,704 23 9
Collections for 1916-1917—		
Port Trust	26,42,642 3 3	
G. I. P. Railway	9,37,151 0 3	
B. B. & C. I. Railway	3,15,532 7 3	
Deduct—		38,85,305 10 9
Refunds paid in 1916-1917	20,09,581 11 0	39,51,010 8 6
Balance of collections on 31st March 1917 due by—	Rs. a. p.	
Port Trust	11,907 10 0	
G. I. P. Railway	31,252 6 8	
B. B. & C. I. Railway	2,274 11 11	
Add—		45,434 12 2
Collections for 1915-16, credited in this office books in 1916-17 owing to insufficiency of grant—	Rs. a. p.	
Commission charges Bill from Port Trust for February 1916	1,517 6 4	
Do. do. G. I. P. Railway for February 1916	1,608 12 1	
Deduct—		3,126 2 7
Collections from the G. I. P. Railway for 1916-17 credited in this office books in 1917-18	28,785 7 6	
Total ..	Rs. 18,70,334 12 5	vide Appendix No. 1.

W. E. WAITE,

Chief Accountant.

No. 15.

levied during 1916-17 under Section 192 (1) of the City of Bombay Municipal Act of 1888.

SUGAR AT 8 ANNAS PER CWT.				GHEE AT 10 ANNAS PER MAUND.				TIMBER AT 2½ PER CENT. ON MARKET VALUE.				FIREWOOD AT 2 ANNAS PER CANDY.				Total Monthly Collections.
Amount of Duty.				Amount of Duty.				Amount of Duty.				Amount of Duty.				
Cwts.	qrs.	lbs.		Maunds.	Seers.			Value.				Candies.	Maunds.			
Rs. a. p.				Rs. a. p.				Rs. a. p.				Rs. a. p.				Rs. a. p.
143,631	2	7	71,815 12 6	28,573	31	17,857 15 9	5,09,018 8 8	12,795 7 5	51,302	14	6,412 13 0	1,77,814 5 9				
62,801	2	7	31,400 12 6	34,284	9	21,427 10 3	9,02,153 12 0	22,553 13 6	47,356	14	5,819 9 0	1,60,414 11 8				
13,855	3	0	6,827 14 0	19,386	9	12,122 10 3	8,67,818 12 0	21,695 7 6	451	0	56 6 0	83,037 11 8				
142,031	1	17½	71,015 11 3	15,135	2	9,459 6 6	16,08,458 12 0	37,586 7 8	39	14	4 15 0	1,73,357 1 6				
281,930	1	7	1,40,976 2 6	25,395	10	15,872 0 6	15,48,868 12 0	41,221 11 6	39	14	4 15 0	2,49,693 11 4				
242,880	0	14	1,21,440 1 0	33,076	13	20,673 11 3	11,96,057 11 4	29,901 7 1	853	14	106 11 0	2,06,924 13 3				
298,722	3	0	1,49,561 6 0	80,010	35	18,756 12 9	13,24,440 10 0	33,111 0 3	25,314	7	3,164 4 6	2,40,819 1 9				
452,104	1	14	2,26,062 3 0	17,122	37	10,701 13 3	17,88,960 10 0	48,999 0 3	23,825	14	2,973 3 0	3,19,761 12 2				
381,914	3	14	1,90,957 7 0	16,435	14	10,272 1 6	16,69,961 14 0	26,749 8 9	24,771	7	3,096 6 6	2,97,744 9 5				
441,558	2	0	2,20,829 4 0	11,363	26	7,102 4 6	16,04,787 1 4	40,119 10 10	40,691	7	5,086 6 6	3,32,108 11 5				
149,996	3	24½	74,988 7 9	9,642	7	6,026 5 3	10,20,747 11 4	25,518 11 1	58,930	14	7,266 5 0	1,95,186 4 7				
162,105	2	14	81,052 13 0	9,514	17	5,948 8 3	8,60,298 2 0	21,507 7 3	76,709	0	9,598 10 0	2,06,773 4 9				
2,773,453	3	7	13,86,726 14 6	249,949	10	1,66,218 4 6	1,42,67,592 4 8	3,56,689 12 11	3,50,284	7	43,785 8 6	26,42,642 3 3				
6,889	2	14	3,419 13 0	11,780	38	7,363 1 6	25,615 0 0	640 6 0	450	0	56 4 0	77,175 9 6				
14,814	1	14	7,407 3 0	8,246	10	2,041 6 6	17,405 0 0	435 2 0	252	0	31 8 0	66,286 3 6				
10,040	0	0	5,020 0 0	5,153	2	3,220 10 6	26,897 8 0	672 7 0	416	0	52 0 0	33,873 13 6				
19,177	0	0	9,688 8 0	9,153	7	5,720 11 9	25,875 0 0	646 14 0	96	0	12 0 0	57,855 9 9				
36,312	1	0	17,656 2 0	15,504	12	9,690 8 0	10,385 0 0	272 9 0	64	0	8 0 0	62,898 14 0				
28,075	3	0	14,037 14 0	6,599	25	5,374 12 3	3,540 0 0	88 8 0	640	0	80 0 0	67,670 14 3				
19,408	0	0	9,704 0 0	28,014	25	17,509 2 3	5,245 0 0	181 10 0	128	0	16 0 0	66,479 7 3				
23,054	2	14	11,527 5 0	28,598	22	16,499 1 6	2,330 0 0	70 12 0	868	0	108 8 0	97,980 8 9				
36,814	0	0	18,457 0 0	54,720	28	34,200 5 9	1,18,667 8 0	2,966 11 0	800	0	62 8 0	1,24,480 13 9				
37,571	3	14	18,735 15 0	35,693	9	22,902 0 3	13,412 8 0	535 5 0	673	14	84 1 0	87,841 2 8				
75,359	0	14	37,666 9 0	63,191	26	39,494 12 6	40,805 0 0	1,020 2 0	2,791	14	348 15 0	1,24,513 11 6				
23,027	0	14	14,013 9 0	25,105	10	15,690 12 6	74,765 0 0	1,369 2 0	928	0	116 0 0	60,074 4 6				
3,33,573	3	0	1,66,786 14 0	289,611	9	1,81,067 0 3	3,65,962 8 0	9,149 1 0	7,306	0	975 12 0	9,27,121 0 3				
29	2	0	14 12 0	20,578	22	12,861 9 6	7,070 0 0	176 12 0	15,207	0	1,902 14 0	30,754 13 6				
127	1	0	63 10 0	11,297	4	7,060 11 0	14,132 8 0	353 5 0	10,038	14	1,264 13 0	20,026 3 0				
106	2	0	53 4 0	20,302	8	12,688 14 0	4,855 0 0	121 6 0	11,647	14	1,380 15 0	20,336 8 0				
15	1	14	7 11 0	21,163	24	13,227 4 0	2,580 0 0	94 8 0	9,728	0	1,216 0 0	26,940 3 0				
1	2	14	0 13 0	31,017	19	19,385 14 9	2,692 8 0	64 13 0	11,900	0	1,437 8 0	34,393 14 9				
318	3	14	159 7 0	18,181	0	11,363 2 0	3,947 8 0	98 11 0	14,380	14	1,797 9 0	25,289 1 0				
452	1	0	226 2 0	7,255	16	4,584 10 0	4,995 0 0	424 14 0	7,655	0	954 6 0	14,304 2 0				
32	2	0	16 4 0	3,390	28	2,119 3 0	4,585 0 0	114 10 0	7,673	0	959 2 0	16,315 4 0				
636	3	0	318 6 0	10,865	4	6,790 11 0	5,260 0 0	181 4 0	25,024	0	3,128 0 0	23,913 5 0				
1,327	3	0	663 14 0	19,564	32	12,240 8 0	22,952 8 0	573 13 0	27,422	0	3,427 12 0	47,792 9 0				
153	2	14	76 13 0	13,614	36	8,509 5 0	77,387 8 0	1,384 11 0	13,760	14	2,345 1 0	24,834 3 0				
7	1	0	3 10 0	9,876	8	6,173 10 0	1,34,245 0 0	3,356 2 0	6,232	0	779 0 0	31,662 5 0				
3,209	1	0	1,604 10 0	187,127	1	1,16,954 6 3	2,84,592 8 0	7,114 13 0	1,63,048	0	20,631 0 0	3,15,532 7 3				
31,10,236	3	7	16,55,118 6 6	726,687	20	4,54,179 11 0	1,49,18,147 4 8	3,72,953 10 11	5,23,188	7	65,392 4 6	38,85,305 10 9				
23,64,202	1	14	11,82,101 3 0	303,797	0	1,89,873 2 0	10,96,585 0 0	27,414 10 0	....	..	.....	20,44,046 7 0				
7,46,034	1	2	3,73,017 3 6	422,890	20	2,64,306 9 0	1,86,21,562 4 8	3,46,589 0 11	5,23,188	7	65,392 4 6	19,08,176 14 9				
.....	.....	.....	.....	.....	..	.....	.....	.....	.....	..	.....	-66,917 11 0				
Net Revenue .. Rs.													18,41,259		3 9	

Appendix No. 16.

STATEMENT showing the net Revenue derived on different dutiable articles during the last ten years commencing from 1907-08 to 1916-17.

Articles.	1907-08.	1908-09.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
Gain ...	@ annas 4. 2,90,720 4 0	@ annas 4. 3,22,386 2 0	@ annas 4. 2,70,212 1 9	@ annas 6. 4,43,484 15 8	@ annas 6. 4,67,041 1 4	@ annas 6. 4,26,970 4 8	@ annas 6. 4,23,562 8 5	@ annas 6. 4,35,874 6 9	@ annas 6. 6,37,104 4 0	@ annas 6. 5,63,407 12 1
Flour ...	@ annas 3. —20,701 15 6	@ annas 3. —16,150 11 9	@ annas 3. —15,237 7 0	@ annas 4½. —26,923 5 0	@ annas 4½. —32,597 0 3	@ annas 4½. —33,911 15 0	@ annas 4½. —37,921 5 0	@ annas 4½. —37,985 1 0	@ annas 4½. —41,744 7 0	@ annas 4½. —63,917 11 0
Wines and Spirits ...	@ annas 4. 2,51,335 6 4	@ annas 4. 2,39,959 12 10	@ annas 4. 2,37,077 4 5	@ annas 4. 2,38,315 5 0	@ annas 4. 2,20,332 11 1	@ annas 4. 2,29,366 0 10	@ annas 4. 2,24,814 11 9	@ annas 4. 2,34,402 3 9	@ annas 4. 2,46,021 5 6	@ annas 4. 2,73,935 2 4
Beer ...	@ pies 6. 15,143 9 0	@ pies 6. 8,353 4 3	@ pies 6. 12,858 2 7	@ pies 6. 11,293 15 0	@ pies 6. 11,513 1 3	@ pies 6. 10,317 10 5	@ pies 6. 15,216 6 4	@ pies 6. 14,359 8 5	@ pies 6. 13,189 7 8	@ pies 6. 23,578 14 5

Appendix

STATEMENT showing the actual Collections, Refunds admitted and Net

ARTICLES.	1912-13.						1913-14.					
	Gross Collections.		Refunds.		Net Revenue.		Gross Collections.		Refunds.		Net Revenue.	
	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.
Grain	10,55,189	2 8	6,28,218	14 0	4,26,970	4 8	9,75,648	0 5	5,52,085	8 0	4,23,562	8 5
Flour	1,654	2 0	35,566	1 0	33,911	15 0	838	3 0	38,754	8 0	37,921	5 0
Wines and Spirits	2,63,503	8 10	34,137	8 0	2,29,366	0 10	2,63,146	1 9	38,331	6 0	2,24,814	11 9
Beer	36,604	15 5	26,387	5 0	10,217	10 5	38,920	5 4	23,703	15 0	15,216	6 4
Sugar	19,59,380	12 2	13,38,527	1 0	6,20,853	11 2	21,51,182	13 9	15,95,004	4 0	5,56,178	9 9
Ghee	2,58,210	12 6	20,333	10 0	2,37,877	2 6	2,71,867	14 0	16,049	13 0	2,55,818	1 0
Timber	2,03,058	1 2	32,365	4 0	1,70,693	13 2	2,31,917	6 3	22,430	14 0	2,09,486	8 6
Firewood	70,327	10 8	.....		70,327	10 8	69,738	3 9	.....		69,738	3 9
Total Rs. ...	38,47,929	1 5	21,16,085	11 0	17,31,843	6 5	40,03,254	0 6	22,86,360	4 0	17,16,893	12 6

W. E. WAITE,
Chief Accountant.

No. 17.

Revenue during the five years from 1912-13 to 1916-17.

1914-15.			1915-16.			1916-17.		
Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
7,76,784 9 9	3,40,910 3 0	4,35,874 6 9	11,08,543 15 0	4,71,439 11 0	6,37,104 4 0	10,86,650 15 1	5,24,343 3 0	5,62,407 12 1
1,509 12 0	39,494 13 0	-37,985 1 0	1,266 8 0	43,010 15 0	-41,744 7 0	6,115 2 0	73,032 13 0	-36,917 11 0
2,68,328 5 9	33,926 2 0	2,34,402 3 9	2,76,014 10 6	29,993 5 0	2,46,021 5 6	3,04,194 0 4	30,258 14 0	2,73,935 2 4
38,223 1 5	23,863 9 0	14,359 8 5	29,793 1 8	16,603 10 0	13,189 7 8	40,701 8 5	17,122 10 0	23,578 14 5
9,04,601 15 9	10,27,691 10 0	-1,23,089 10 3	15,48,831 12 7	9,89,548 4 0	5,59,283 8 7	15,55,118 6 6	11,82,101 3 0	3,73,017 3 6
3,38,109 11 9	75,596 8 0	2,62,513 3 9	3,92,462 6 3	1,13,409 6 0	2,79,053 0 3	4,54,179 11 0	1,89,873 2 0	2,64,306 9 0
2,39,354 15 0	40,584 15 0	1,98,770 0 0	2,35,009 2 4	29,438 0 0	2,05,571 2 4	3,72,958 10 11	27,414 10 0	3,45,539 0 11
60,844 9 6	.....	60,844 9 6	68,179 10 6	.....	68,179 10 6	65,392 4 6	.....	65,392 4 6
26,27,757 0 11	15,82,067 12 0	10,45,689 4 11	36,60,101 2 10	16,93,443 3 0	19,66,657 15 10	33,85,305 10 9	20,44,046 7 0	13,41,259 3 9

P. W. MONIE,

Municipal Commissioner.

Appendix

Statement showing Town Duty Collections from each source month by month with

MONTH.	Grain and Pulse.		Flour of all sorts.		Wines and Spirits.		Beer.	
Duty Collected by	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
BOMBAY PORT TRUST.								
April	48,168 10 3	47,867 1 9	.....	102 6 0	20,246 9 9	18,645 10 10	718 10 5	2,387 2 6
May	49,754 6 6	44,509 10 3	.....	46 10 0	19,141 6 9	30,371 6 2	1,341 6 9	4,185 4 0
June	35,975 2 8	15,905 13 3	.....	60 8 0	23,191 10 4	22,276 8 2	1,049 6 6	4,092 8 6
July	14,520 5 3	26,553 0 3	.....	187 12 0	26,952 8 8	25,695 3 3	1,580 15 0	2,874 9 9
August	10,690 15 0	18,901 4 6	.....	137 7 0	20,766 15 7	27,410 0 10	2,454 15 6	5,171 1 6
September ..	17,610 12 6	5,371 13 3	16 4 0	59 5 0	20,317 10 4	24,629 6 8	2,833 15 9	3,743 6 0
October	17,885 12 1	7,410 6 6	29 2 0	6 9 0	21,664 8 0	27,665 0 9	4,602 7 6	1,343 10 0
November ..	17,721 1 2	14,576 1 6	4 13 0	2 12 0	19,952 11 7	18,526 0 5	2,951 14 0	2,925 10 9
December ..	75,282 1 6	38,929 5 7	23 1 0	40 6 0	21,370 9 3	25,981 8 6	2,267 9 9	1,717 13 7
January	59,567 2 6	32,766 4 0	0 2 0	3 14 0	22,499 11 9	28,248 6 7	2,630 14 0	2,946 9 0
February ..	75,813 2 6	58,218 2 3	57 14 0	0 5 0	26,430 10 8	21,447 14 8	3,654 1 6	1,610 1 1
March	35,843 0 6	57,172 10 0	101 0 0	.....	29,026 0 10	28,115 11 6	3,596 5 0	3,395 8 9
Total	4,69,332 8 6	3,68,181 9 1	232 4 0	633 14 0	2,70,962 1 6	2,94,012 14 4	29,687 9 8	36,893 5 5
G. I. P. RAILWAY.								
April	52,145 4 0	65,435 8 0	0 14 0	0 3 0	250 6 0	182 6 0	9 5 0	78 0 0
May	45,737 7 0	55,786 10 0	.....	0 2 0	57 8 0	236 12 0	3 0 0	347 8 0
June	15,668 3 0	23,622 15 0	0 11 0	0 1 0	101 14 0	265 8 0	1 11 0	520 4 0
July	12,376 6 0	41,917 2 0	0 8 0	0 8 0	61 8 0	269 12 0	1 11 0	200 2 0
August	38,768 15 0	34,782 8 0	3 6 0	0 4 0	111 12 0	165 0 0	2 3 0	325 0 0
September ..	49,081 8 6	47,451 14 0	0 7 0	0 2 0	64 8 0	312 12 0	0 8 0	335 0 0
October	26,483 11 0	38,039 8 0	.....	0 11 0	220 12 0	1,383 8 0	0 8 0	195 0 0
November ..	80,845 7 0	67,255 14 0	0 3 0	6 10 0	149 14 0	105 5 0	3 10 0	407 1 0
December ..	38,008 2 0	68,187 4 0	0 15 0	0 4 0	159 14 0	314 0 0	29 8 0	322 13 0
January	42,585 12 0	45,936 10 0	.....	0 2 0	51 8 0	109 12 0	0 8 0	337 5 0
February ..	31,565 8 0	45,163 9 0	0 6 0	0 4 0	38 12 0	491 8 0	46 3 0	325 0 0
March	59,980 5 0	27,915 6 0	0 15 0	5 14 0	155 8 0	190 9 0	0 12 0	273 0 0
Total	4,97,161 8 6	5,61,464 7 0	8 5 0	15 1 0	1,413 12 0	4,026 13 0	99 7 0	3,706 1 0
B. B. & G. I. RAILWAY.								
April	17,043 10 0	15,292 0 0	33 2 0	119 2 0	35 12 0	389 12 0	.....	.....
May	43,573 15 0	10,980 14 0	73 6 0	116 2 0	35 0 0	196 12 0	.....	.....
June	30,560 6 0	6,003 11 0	130 14 0	53 10 0	21 4 0	34 12 0	1 12 0	.....
July	20,622 7 0	11,958 9 0	164 2 0	44 3 0	26 0 0	350 8 0	.....	71 8 0
August	12,781 9 0	12,989 14 0	40 15 0	113 9 0	72 8 0	336 8 0	0 4 0	64 15 0
September ..	10,891 10 0	11,140 6 0	16 6 0	462 6 0	172 9 0	247 8 0	4 1 0	.....
October	7,807 8 0	7,188 15 0	114 7 0	514 14 0	67 8 0	676 10 0	.....	83 11 0
November ..	15,779 15 0	11,344 9 0	89 10 0	493 12 0	370 8 0	709 12 0	.....	58 0 0
December ..	8,882 6 6	17,631 5 0	81 7 0	347 10 0	366 8 0	529 12 0	.....	136 5 0
January	11,203 4 0	22,634 14 0	89 14 0	1,266 14 0	535 4 0	969 8 0	.....	25 6 0
February ..	12,711 9 6	10,488 1 0	118 6 0	566 15 0	1,062 4 0	847 8 0	.....	65 15 9
March	10,491 10 0	19,561 13 0	73 6 0	877 4 0	873 12 0	865 8 0	.....	96 6 0
Total	2,02,049 14 0	1,57,004 15 0	1,025 15 0	5,466 3 0	3,638 18 0	6,154 6 0	6 1 0	602 2 0
GRAND TOTAL ..	11,08,543 15 0	10,86,650 15 1	1,266 8 0	6,115 2 0	2,76,014 10 6	3,04,194 0 4	29,798 1 8	40,701 8 5
Deduct— REFUNDS PASSED BY THE R. & R. A. OFFICER ..	4,71,439 11 0	5,24,243 3 0	43,010 15 0	73,082 13 0	29,993 5 0	30,258 14 0	16,603 10 0	17,122 10 0
NET REVENUE ..	6,37,104 4 0	5,62,407 12 1	41,744 7 0	66,917 11 0	2,46,021 5 6	2,73,935 2 4	13,195 7 8	23,578 14 5

* Revenue from Town Duty—

For 1915-1916

For 1916-1917

Rs. a. p.

19,66,657 15 10

18,41,259 3 9

Add—Refunds admitted by the R. & R. A. Officer for 1915-16

Refunds passed by the Accounts Office in 1915-16

Difference

Decrease

Rs. 1,25,398 12 1

Rs. 1,63,443 3 0

Rs. 16,23,607 2 0

Rs. -69,836 1 0

Difference between collections payable on 1st April 1915

" " " " " 1916

Rs. 42,444 3 8

65,704 13 9

23,260 10 6

Deduct—Difference between the amount credited in 1915-16 .. Rs. 8,989 11 9

" " " " " 1916-17 .. 3,126 2 7

5,863 9 2

17,397 1 4

52,438 15 8

Refunds admitted by the R. Officer for 1916-17 .. Rs. 20,44,046 7 0

Refunds passed by the Account Office in 1916-17 .. 20,09,561 11 0

Difference .. Rs. 34,484 12 0

34,484 12 0

Deduct—Difference between collections payable on 1st April 1916 .. Rs. 65,704 13 9

" " " " " 1917 .. 45,434 12 2

20,270 1 7

Deduct—Difference between the amount credited in 1916-17 .. Rs. 3,126 2 7

" " " " " 1917-18 .. 28,735 7 6

Rs. 25,609 4 11

5,889 3 4

W. E. WAITE,
Chief Accountant.

No. 18.

the refunds admitted for the year 1916-17 as contrasted with those for the year 1915-16.

Sugar.		Ghee.		Timber.		Firewood.		Total monthly collection.	
1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. n. p.	Rs. a. p.
1,51,723 2 7	71,815 12 6	15,342 2 6	17,857 15 9	20,763 1 10	12,725 7 5	8,934 5 0	6,412 13 0	2,65,891 13 4	1,77,314 5 9
49,443 0 0	31,400 12 6	18,362 0 3	21,427 10 3	21,943 1 5	22,553 13 6	4,629 3 0	5,919 9 0	1,64,814 8 8	1,60,414 11 8
52,073 8 9	6,827 14 0	14,849 10 0	12,122 10 3	18,733 0 7	21,695 7 6	25 3 0	56 6 0	1,45,897 9 10	83,037 11 8
1,28,796 1 6	71,015 11 3	14,843 7 9	9,459 6 6	15,703 2 0	37,586 7 6	8 0 0	4 15 0	2,01,815 8 2	1,73,357 1 6
2,10,468 0 6	1,40,975 2 6	13,314 8 3	15,872 0 6	20,492 11 3	41,221 11 6	5 13 0	4 15 0	2,78,133 15 1	2,49,698 11 4
1,27,787 15 0	1,21,440 1 0	15,298 1 0	20,672 11 3	24,763 2 0	29,901 7 1	1,237 9 0	106 11 0	2,09,365 5 7	2,05,924 13 3
2,32,947 6 6	1,49,361 6 0	18,102 5 9	18,756 12 9	14,095 13 1	33,111 0 3	3,233 5 0	3,164 4 6	3,12,060 11 11	2,40,819 1 9
62,780 15 0	2,26,062 3 0	9,928 15 3	10,761 13 3	20,692 12 2	43,999 0 3	3,507 1 0	2,978 3 0	1,37,540 3 3	3,19,761 12 2
51,109 1 0	1,90,957 7 0	13,327 3 6	10,272 1 6	21,695 4 2	26,749 8 9	4,128 12 6	3,098 6 6	1,39,203 10 3	2,97,744 9 5
1,43,293 13 6	2,20,829 4 0	15,213 0 3	7,102 4 6	12,453 2 9	40,119 10 10	5,841 14 6	5,088 6 6	2,52,302 13 3	3,32,168 11 5
1,59,996 0 0	74,998 7 9	18,682 3 9	6,026 5 9	27,114 9 7	25,518 11 1	6,960 14 0	7,866 5 0	3,18,709 8 0	1,95,186 4 7
1,10,013 1 3	81,052 13 0	15,996 2 6	5,946 8 3	13,837 4 6	21,507 7 3	8,497 8 6	9,588 10 0	2,36,910 7 1	2,06,779 4 9
14,80,375 1 7	13,86,726 14 6	1,88,259 12 9	1,56,218 4 6	2,32,287 1 4	3,56,639 12 11	46,309 11 6	43,785 8 6	27,12,946 2 10	26,42,642 3 3
4,103 13 0	3,419 13 0	1,438 7 9	7,363 1 6	96 15 0	640 6 0	173 12 0	56 4 0	58,218 12 9	77,175 9 6
3,341 4 0	7,407 3 0	1,592 14 0	2,041 6 6	213 12 0	455 2 0	106 0 0	31 8 0	51,051 13 0	66,286 3 6
3,714 5 0	5,020 0 0	1,852 6 6	3,220 10 6	79 1 0	672 7 0	132 10 6	52 0 0	21,560 13 6	33,373 13 6
6,384 2 0	9,088 8 0	2,704 5 0	5,720 11 9	62 13 0	646 14 0	53 14 0	12 0 0	21,845 3 0	37,855 9 9
6,587 15 0	17,656 2 0	1,799 5 6	9,690 3 0	59 0 0	272 2 0	100 0 0	8 0 0	42,402 8 8	62,888 14 0
6,901 2 0	14,037 14 0	12,536 11 6	5,374 12 3	74 11 0	88 8 0	185 10 0	80 0 0	68,345 2 0	67,670 14 3
2,337 13 0	9,704 0 0	15,899 4 9	17,509 2 3	321 9 0	131 10 0	80 0 0	16 0 0	44,348 9 9	66,979 7 3
4,669 10 0	11,527 5 0	12,385 15 3	18,499 1 6	179 7 0	70 12 0	33 15 0	103 8 0	43,198 1 3	97,930 8 6
3,481 4 0	18,457 0 0	10,645 6 3	34,200 5 9	158 14 0	2,965 11 0	140 12 0	62 8 0	52,619 11 3	1,24,480 13 9
7,705 14 0	18,785 15 0	9,499 5 6	22,202 0 3	64 13 0	335 5 0	106 8 0	84 1 0	60,014 4 6	87,841 2 3
5,752 3 0	37,669 9 0	9,366 10 3	39,494 12 6	147 0 0	1,020 2 0	60 2 0	348 16 0	46,916 12 3	1,24,518 11 6
8,017 2 0	14,013 9 0	10,980 7 6	15,699 12 6	64 11 0	1,869 2 0	44 0 0	116 0 0	79,173 12 6	60,674 4 6
62,906 7 0	1,66,786 14 0	90,651 3 9	1,81,007 0 3	1,522 10 0	9,149 1 0	1,217 8 0	975 12 0	5,94,380 8 3	9,27,131 0 3
102 4 0	14 12 0	3,340 11 0	12,861 9 6	108 2 0	176 12 0	1,498 10 9	1,900 14 0	27,362 3 0	30,754 13 6
67 12 0	65 10 0	10,328 13 0	7,060 11 0	80 4 0	353 5 0	1,521 12 0	1,254 13 0	55,680 14 0	20,026 3 0
5 7 0	53 4 0	12,259 11 6	12,688 14 0	56 12 0	121 6 0	1,488 10 0	1,380 15 0	44,524 12 6	20,336 8 0
164 2 0	7 11 0	20,258 9 0	13,227 4 0	36 6 0	64 8 0	1,404 2 9	1,216 0 0	42,875 13 0	26,940 3 0
607 7 0	0 13 0	11,907 4 0	19,385 14 9	16 12 0	64 13 0	581 0 0	1,487 8 0	26,007 11 0	34,393 14 9
1,837 6 0	159 7 0	6,720 2 0	11,363 2 0	18 2 0	98 11 0	935 3 0	1,797 9 0	20,615 7 0	25,289 1 0
328 15 0	226 2 0	7,358 15 3	4,534 10 0	162 6 0	124 14 0	2,526 4 0	554 6 0	18,365 15 3	14,304 2 0
807 6 0	16 4 0	9,216 1 6	2,119 3 0	63 12 0	114 10 8	682 8 0	959 2 0	27,009 12 6	16,315 4 0
570 2 0	318 6 0	5,443 6 0	6,790 11 0	136 6 0	131 4 0	1,639 2 0	3,128 0 0	16,619 5 6	28,913 5 0
1,031 4 0	663 14 0	7,368 13 3	12,240 8 0	74 8 0	573 13 0	2,643 7 0	3,427 12 0	23,346 6 3	41,792 9 0
6 13 0	76 13 0	8,394 11 0	8,509 5 0	326 1 0	1,934 11 0	3,354 4 0	2,345 1 0	25,974 0 6	24,834 3 0
1 6 0	3 10 0	9,954 4 3	6,172 10 0	120 0 0	3,356 2 0	1,977 14 0	779 0 0	23,492 4 3	31,652 5 0
5,550 4 0	1,604 10 0	1,38,551 5 9	1,16,954 6 3	1,189 7 0	7,114 13 0	20,152 12 0	20,631 0 0	3,52,174 7 9	3,15,552 7 3
15,48,831 12 7	15,55,118 6 6	3,92,462 6 3	4,54,179 11 0	2,35,009 2 4	3,72,953 10 11	68,179 10 6	65,392 4 6	36,60,101 2 10	38,85,305 10 9
9,89,548 4 0	11,82,101 3 0	1,13,409 6 0	1,89,873 2 0	29,438 0 0	27,414 10 0	....	....	16,93,443 3 0	20,44,046 7 0
5,59,283 8 7	8,73,017 3 6	2,79,053 0 8	2,64,306 9 0	2,05,571 2 4	3,45,529 0 11	68,178 10 6	65,392 4 6	*19,66,667 15 10	*18,41,259 3 9

Rs. a. p.

1,77,837 11 9

29,075 5 8

1,48,762 3 1 Decrease shown in Appendix No. 1.

P. W. MONIE,
Municipal Commissioner.

Appendix No. 19.

STATEMENT showing (1) the Grants sanctioned for New Works, (2) the Expenditure incurred on them, and (3) the Balances of the grants remaining unexpended.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	General Office Establishment.						
1	Constructing a fire-proof shed for storing 100 gallons petrol in the compound of Municipal Office Building... ..	.....	287 0 0	.....	3 14 9	.....	283 1 3
2	Renewal of a portion of the flooring of the 3rd floor of the Municipal Office Building ...	.....	2,300 0 0	.....	.....	.....	2,218 0 0
	Revenue and Refund Audit Office Establishment.						
3	Construction of a Chowki at Malet Bunder	1,680 0 0	.....	1,400 6 0	.....	.....	.....
	Fire Brigade.						
4	Construction of a fire-proof shed for storing 500 gallons of petrol at the Head Quarters, Fire Brigade, Sankli Tank ...	.....	788 0 0	.....	10 12 7	.....	777 3 3
5	Construction of a wall along the road side of Haines Road Fire Brigade Station Compound ...	.....	2,584 0 0	.....	.....	.....	2,584 0 0
6	Providing an additional latrine at the Gowalia Tank Fire Brigade Station ... ..	.....	878 0 0	.....	764 9 5	.....	.....
7	Providing accommodation for stores and office room for the Head Foreman at the Byculia Fire Brigade Station	406 0 0	.....	296 11 5	.....	.....	.....
8	Removing and refixing crane for lifting boilers of Fire Brigade Engines	594 8 0	.....	593 8 11	.....	.....	.....
	Mechanical Branch.						
9	Substituting electrically driven Stereophogons Pumps for Shone's Ejector at No. 1 Ejector Station, Agripada ... ..	.....	9,873 0 0	.....	.....	.....	9,873 0 0
10	Providing a five-seated latrine at workmen's chawl at Love Grove Pumping Station ...	2,105 0 0	.....	.....	.....	.....	.....
11	Construction of 30 semi-permanent huts for the accommodation of the staff employed at the Love Grove Pumping Station	780 0 0	.....	684 4 8	.....	.....	.....
	Carried over Rs. ...	5,565 8 0	16,710 0 0	2,974 15 0	779 4 9	.....	15,730 4 8

Appendix No. 19—continued.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward ...	5,565 8 0	16,710 0 0	2,974 15 0	779 4 9	.....	15,730 4 8
	Drainage.						
12	Providing storm-water drain 1'-6" x 1'-6" with half sized water entrances and water tables in Wodehouse Road near Panday Sanatorium ...	.....	5,041 0 0	.....	4,783 4 1	.....	307 11 11
18	Constructing a masonry storm-water drain 2' x 2' in the line of the kutchia storm-water course in the rear of the Madhawjee Dharamsi Mills at Foras Road and filling in the low-lying Municipal ground...	.....	2,926 0 0	... ..	2,925 4 11	.....	.....
14	Providing a storm-water drain 2' x 2' and constructing five manholes with C. I. circular frames with half size water entrances in Balaram Street...	.....	6,672 0 0	.....	1 3 2	.....	6,670 12 10
15	Constructing open Roadside Drain 1' x 1' with storm-water channel pipe at the bottom of Walkeshwar Road ...	.....	3,976 0 0	.....	3,975 14 8	.....	.....
16	Diverting the 18" sealed sewage main, 8" x 4" air main, 9" pipe sewer flushing tank sealed sewage chamber and removing the existing manholes, frames, etc., in Victoria Road and Mount Road ...	.....	677 0 0	.....	676 15 0	.....	.....
17	Petty Drainage new works ...	3,518 12 2	9,538 11 10	2,818 12 2	8,895 8 0	700 0 0	643 0 0
18	Relieving arches at Falkland Road ...	567 0 0	4,984 0 0	567 0 0	4,983 12 8	.....	.....
19	Permanent manholes over storm-water drains ...	.....	3,000 0 0	.....	2,752 7 6	.....	247 8 6
20	Laying a 9" pipe sewer in Worli Road ...	3,822 0 0	.....	3,821 12 8	.....	.....	.....
21	Constructing a covered storm-water drain near premises No. 471-489 on the east side of Girgaum Road and providing a storm-water covered side drain in Kandewadi Lane between Girgaum Road and Sadashiv Street and between Sadashiv Street and Khattarali Lane ...	5,345 8 0	.....	5,345 4 4	.....	.....	.....
22	Laying a 9" pipe sewer in Esplanade Maidan ...	4,438 0 0	.....	4,437 11 9	.....	.....	.....
23	Laying a 9" pipe sewer and raising a 6" pipe drain to the low-level channel at DeLisle Road near Parbhadevi Road...	398 0 0	.....	397 9 5	.....	.....	.....
24	Shifting the existing water entrances at Parbhadevi Road for street improvement ...	833 0 0	.....	.....	.....	833 0 0	.....
	Carried over Rs. ...	24,487 12 2	53,524 11 10	20,363 1 4	29,723 10 9	1,533 0 0	23,599 5 11

Appendix No. 19—continued.

No	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward ...	24,487 12 2	53,524 11 10	20,863 1 4	29,723 10 9	1,533 0 0	23,599 5 11
	Drainage—contd.						
25	Construction of a temporary storm-water overflow to discharge sewer hollow low water level into the harbour at Pilot Bunder ... ..	.....	2,965 0 0	.....	2,964 15 6	.....	.....
26	Laying a 6" C.I. pipe line from Ejector Station No. 8, Colaba, to the base of the chimney shaft of the old Prince of Wales Press at Victoria Bunder ... ..	.....	3,056 0 0	.....	2,450 14 8	.....	605 1 4
27	Reconstructing a collapsed arch of the main storm-water drain at Bellasis Bridge ... ..	.....	10,000 0 0	.....	9,685 11 1	.....	314 4 11
28	Providing a storm-water drain in a portion of Thakurdwār Road ... ..	.....	1,680 0 0	.....	1,679 1 6	.....	.....
29	Channelling and pitching a portion of water course No. 75 on the west of the Elphinstone Road Station ... ..	.....	6,069 0 0	.....	351 4 0	.....	5,717 12 0
30	Constructing a temporary masonry and storm-water drain in Mahim Bazar Road ... ..	.....	2,525 0 0	.....	209 13 0	.....	2,315 3 0
31	Removing the existing open side drains and providing a 6" pipe drain connecting each of the premises directly with the 6" pipe drain in common house gully between Abdul Rehman Street and Sarang Street and north of Janjekar Street and south of Bhajipala Lane ... ..	.....	5,962 0 0	.....	.....	.....	5,962 0 0
	Streets and Buildings.						
32	The development of the land acquired at Golanji Hill Road for stone depôt and for the erection of stone breaking and crushing machinery	6,321 11 4	.....	243 10 3	.....	6,078 1 1	.....
33	Providing a steel framed corrugated iron shed for the stone crushing machinery on the Municipal land at Sewri	7,000 0 0	.....	6,742 15 0	.....	.....	.....
	Carried over Rs.	87,809 7 6	85,781 11 10	27,849 10 7	47,065 6 6	7,611 1 1	38,513 11 2

Appendix No. 19—continued.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	37,809 7 6	85,781 11 10	27,349 10 7	47,065 6 6	7,611 1 1	38,513 11 2
	Streets and Buildings — <i>concl'd.</i>						
34	Reconstructing as an experimental measure with a concrete bottoming covers with bituminous mucedam, the portion of Frere Road in front of the main gates of the Prince's Docks from Kaylan Street to Musjid siding ...	11,998 1 5	.....	.....	.....	11,998 1 5	.....
35	Reducing the level of the Road at the junction of Mount Road and Victoria Road and executing auxiliary works ...	1,000 0 0	.....	.....	.....	1,000 0 0	.....
36	Improvement of Bhatia Bang ...	3,371 13 5	224 9 8	43 15 1	.....	3,327 14 4	224 9 8
37	Providing 20 "Head load rests" on roads in the northern part of the city ...	600 0 0	.....	501 12 4	...	.....	.....
38	Erection of a shed for stone-crushing machinery at Nowroji Hill Road ...	364 0 0	528 0 0	364 0 0	527 13 9	.....	.....
39	Constructing a fire-proof shed for storing 200 gallons of petrol, a shed for housing three motor wagons with drainage and water arrangements and night watchman's chowky at Garden Bridge ...	.....	6,844 0 0	.....	98 8 11	.....	6,750 7 1
40	Diversion of drain, water and gas mains in connection with the widening of Elphinstone Bridge ...	.....	10,000 0 0	.....	.....	.....	10,000 0 0
41	Paving a portion of the Frere Road with wood blocks as an experimental measure ...	415 9 0	.....	415 9 0	.....	.....	.....
42	Improving the gradients at Worlee Road ...	12,430 0 0	.....	.....	.....	12,430 0 0	.....
43	Filling in the Mustan Tank ...	.....	1,578 15 8	.....	1,578 15 8	.....	.....
44	Filling in the Nawab Tank ...	.....	10,788 0 0	.....	.....	.....	10,788 0 8
45	Fencing the Municipal ground between the Arthur and DeLisle Roads ...	.....	998 0 0	.....	796 6 2	.....	.....
46	Converting the Falkland Road Garden into a playground for children ...	.....	4,086 0 0	.....	203 7 10	.....	3,882 8 2
	Carried over. Rs. ...	67,988 15 4	1,20,779 5 2	28,674 15 0	50,265 10 10	36,367 0 10	70,109 4 1

Appendix No. 19—continued.

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
	Brought forward Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
		67,988 15 4	1,20,779 5 2	28,674 15 0	50,265 10 10	36,367 0 10	70,109 4 1
	Water Works.						
47	Laying a 5" main in Mint Road.	.....	3,356 0 0	.....	2,922 0 8	.....	433 15 4
48	Laying two 6" water mains, one on each side of the Sandhurst Road extension between Dongri Street and Chinchbunder Road ... ..	.....	5,607 0 0	.....	5,546 13 5	.....	.....
49	Laying a 6" main in Ardesir Dady Street ... ..	.....	5,190 0 0	.....	4,511 7 8	.....	678 8 4
50	Laying 800' of 5" main in Road No 1, East Agripada... ..	.....	11 0 0	.....	.....	.....	.....
51	Laying a 5" main in Pinjrapole 1st Street ... ..	.....	2,764 0 0	.....	2,112 3 4	.....	651 12 3
52	Laying a 5" main in Pinjrapole 3rd Street ... ..	.....	2,661 0 0	.....	2,056 1 7	.....	604 14 5
53	Laying small mains at the Malabar Hill Reservoir Garden ... ..	.....	1,200 0 0	.....	1,112 5 4	.....	.....
54	Laying small mains at Bhandarwada Reservoir and providing small storage tanks for the same ... ..	.....	2,500 0 0	.....	2,188 13 0	.....	311 3 0
55	Completing water-proofing works at Malabar Hill Reservoir	3,614 7 3	.....	3,577 10 4	.....	.....	.....
56	Laying a 5" water main in the portion of Foras Road lying between Lamington Road and Grant Road Station	200 0 0	.....	176 7 0	.....	.....	.....
57	Replacing the 3" main in Arthur Road by a 6" one and extending the same so as to join the 6" main in Kalachowki Road	2 0 0	.....	1 12 6	.....	.....	.....
58	Laying a 6" main in Forjett Street and Forjett Cross Lane.	956 11 2	.....	932 12 7	.....	.....	.....
59	Purchase of meter testing appliances and erecting a meter testing shed at Chinchpokli	567 5 10	.....	542 14 10	.....	.....	.....
60	Rendering reservoirs and filters at Malabar Hill water tight	1,503 6 4	.....	1,427 4 11	.....	76 1 5	.....
61	Removing Vehar Village	1,800 0 0	.....	1,786 15 1	.....	.....	.....
	Carried over Rs. ...	76,632 13 11	1,44,068 5 2	37,070 12 3	70,715 7 10	36,443 2 3	72,789 9 10

Appendix No. 19—continued.

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
	Brought forward Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
		76,632 13 11	1,44,068 5 2	37,070 12 3	70,715 7 10	36,443 2 3	72,789 9 10
	Water Works—conold.						
62	Constructing gauge weirs for measuring leakage at Tansa, Vehar and Tulsi Lakes ...	1,578 0 0	.....	.....	.....	.....	.....
63	Providing mosquito-proof gauge wire to the Ventilator and other openings in the roof of the Malabar Hill Reservoir ...	323 4 7	.....	Cr. 104 11 2	.....	.....	.....
64	Laying water mains in the Chowpati Estate ...	700 14 1	.....	281 7 10	.....	400 0 0	.....
65	Laying 5" main in Champawadi Cross Lane ...	500 0 0	.....	245 4 0	.....	254 12 0	.....
66	Diversion of 18" main at El-phinstone Bridge ...	706 12 0	68 5 10	706 12 0	68 5 10	.....	.....
67	Construction of a new chawl at Kurla for labourers in Salsette Division, ...	4,923 7 5	.....	.....	.....	4,923 7 5	.....
68	Rendering filters at Malabar Hill Reservoir mosquito-proof ...	5,039 14 11	.....	2,039 1 6	.....	3,000 13 5	.....
69	Alterations to the outlets from filter Nos. 1 to 6 at Bhandarwada Reservoir ...	6,876 12 7	.....	6,858 1 9	.....	.....	.....
	Sanitary Health Department.						
70	Construction of latrines and urinals ...	.....	14,344 0 0	.....	7,004 7 9	1,527 0 0	5,792 0 0
71	Filling in a further portion of Haines Road Cemetery ...	.. ..	5,000 0 0	.....	572 1 6	.....	4,427 0 0
72	Constructing 22 latrines and urinals in the Frere Reclamation District ...	.....	1,410 0 0	.....	1,408 3 8	.....	.....
73	Construction of a small improvised crematorium at Sewri Cemetery ...	....	5,000 0 0	.....	.....	.....	5,000 0 0
74	Improving the drainage arrangements at Halalkhore Chawls at Suklaji Street ...	78 0 0	.....	74 0 7	.....	.....	.....
75	Consolidating with tar metalling the floor of Health Department Stable at Arthur Road.	2,741 0 0	.....	1,976 8 4	.....	542 6 5	.....
	Carried over Rs. ...	1,00,100 15 6	1,69,890 11 0	49,147 5 1	79,768 10 7	47,091 9 6	88,008 9 10

Appendix No. 19—continued.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	1,00,100 15 6	1,69,890 11 0	49,147 5 1	79,768 10 7	47,091 9 6	88,008 9 10
	Sanitary Health Department—concd.						
76	Constructing a new temporary ward in place of the ward at Arthur Road Hospital ...	1,174 0 0	.....	1,048 13 6	.....	.....	.....
77	Construction of a septic tank with a hopper at Dharavi near Sion Station	1,518 0 0	1,119 0 0	1,518 0 0	519 9 11	.....	599 0 0
78	Removing the Health Camps, &c., from the Northbrook Garden and re-erecting on Morgue site	21,115 0 0	.....	7,447 11 6	.....	13,667 0 0	.....
79	Additions and alterations in the small-pox ward at Arthur Road Hospital	3,629 0 0	.....	3,628 11 11	.....	.....	.....
80	Improving the water supply at the Bammoli N. S. Depot	928 0 4	.....	797 1 6	.....	.....	.....
81	Constructing a new incinerator at Parel Laboratory for burning dead rats, &c. ... ..	.....	3,279 0 0	.....	.....	.....	3,279 0 0
82	Constructing a store room, etc., on the site occupied by the structure known as Motor loading depot at Null Bazar..	.....	1,936 0 0	.....	.....	.....	1,936 0 0
83	Constructing a new Hospital for Cattle at Tardeo Flats ...	1,710 0 0	.....	1,709 3 5	.....	.....	.....
84	Filling in the low-lying ground behind the N.S. Depot at Arthur Road. ... ..	.....	7,340 0 0	.....	7,333 8 4	.....	.....
85	Constructing of a lethal chambers at Tardeo Flat	1,399 0 0	.....	303 14 8	.....	1,095 0 0	.....
86	Providing a compound wall at Worli Cemetery	1,414 0 0	.....	1,285 5 11	.....	124 0 0	.....
87	Rebuilding the wards at the Maratha Hospital	4,894 0 0	.....	.....	.....	4,894 0 0	.....
88	Extension of Dhobiwada at Mahaluxmi by 50 stones ..	636 0 0	.....	.....	.....	93 9 7	.....
89	Paving and enclosing dust-bin stands	300 0 0	.....	.....	.....	300 0 0	.....
90	Building a wall for protecting the Mahim Burning Ground from the inroads of the sea	18,808 0 0	.....	.....	.....	18,808 0 0	.....
91	Improving the water supply at latrines and urinals at Parel Tank Road	18 7 8	.....	.....	.....	.....	.....
92	Substituting a block of 4 water-closets, etc., at Bumlachore Lane	1,415 0 0	.....	1,414 12 1	.....	.....	.....
93	Constructing a semi-permanent chawl for carcass establishment ... ..	.....	8,750 0 0	.....	98 11 10	.....	8,651 0 0
	Carried over Rs.	1,59,059 7 6	1,92,314 11 0	68,500 15 7	37,720 8 8	86,073 3 1	1,02,473 9 10

Appendix No. 19—concluded.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.	For years previous to 1916-17.	For 1916-17.
	Brought forward Rs. ...	Rs. a. p. 1,59,059 7 6	Rs. a. p. 1,92,314 11 0	Rs. a. p. 68,300 15 7	Rs. a. p. 87,720 8 8	Rs. a. p. 86,073 3 1	Rs. a. p. 1,02,473 9 10
	Markets.						
94	Constructing two-seated water-closets and six-seated urinals at the Arthur Crawford Market.	.....	2,425 0 0	.....	519 4 1	.....	1,905 0 0
95	Providing drainage and water fittings in connection with the above work ...	.....	2,036 0 0	.....	.....	.....	2,036 0 0
96	Providing and fixing gas lights, etc., in connection with the above works ...	.....	220 0 0	.....	.....	.....	220 0 0
97	Rebuilding the sheep pen at Bandra Slaughter Houses ...	10,062 0 0	.....	7,656 11 8	.....	1,178 0 0	.....
98	Construction of a Slaughter House at Arthur Road for killing pigs ...	2,057 8 0	.....	1,987 10 7	.....	.....	.....
99	Providing temporary railing and a scale shed at Arthur Crawford Market ...	3,452 0 0	.....	3,305 9 7	.....	.....	.....
100	Providing and fixing new pattern hydrants in Municipal Markets	1,354 0 0	.....	.....	.....	1,354 0 0	.....
101	Paving the compound of Arthur Crawford Market ...	684 0 0	.....	.....	.....	684 0 0	.....
102	Improving the drainage arrangements of the Fort Market ...	1,069 0 0	.....	.....	.....	1,069 0 0	.....
		1,77,717 15 6	1,96,995 11 0	81,250 15 5	88,339 12 9	90,358 3 1	1,06,634 9 10
		3,74,713 10 6		1,69,490 12 2		1,96,992 12 11	
	Gardens.						
103	Construction of storm-water drains in the Victoria Gardens.	.....	5,000 0 0	.....	3,900 5 10	.....	1,099 10 2
104	Renovating all the old ferneries and conservatories ...	1,817 11 5	.....	1,817 11 5	.....	.....	.....
105	Improvement in the Zoological portions of the Victoria Gardens ...	505 4 6	.....	.....	.....	.....	.....
106	Renovating the roof of the infirmary at the Victoria Gardens ...	2,549 0 0	.....	2,210 8 6	.....	.....	.....
107	Erecting a W.I. fence and providing expanded metal to be cast iron railing at the Victoria Gardens...	.....	6,086 0 0	.....	83 5 1	.....	6,002 10 0
108	Constructing the Overseer's quarters in the Victoria Gardens.	141 13 0	.....	.....	.....	.....	.....
		5,013 12 11	11,086 0 0	4,028 3 11	3,983 10 11	.....	7,102 4 2
		16,099 12 11		8,011 14 10		7,102 4 2	
	Grand Total Rs. ...	3,90,813 7 5		1,77,502 11 0		2,04,095 1 1	

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

Appendix

STATEMENT showing the principal liabilities on account of Street Improvements incurred at rates finally made

Name of the Party.	Locality.	Actual area acquired.	AS ORIGINALLY	
			Rate per Square Yard.	Compensation for Land.
		Sq. yds.	Rs. a. p.	Rs. a. p.
Mr. Adamji Rajbhoy, Receiver in Suit No. 427 of 1913.	Parel Road, Bhendi Bazar	13'46	75 0 0	1,069 8 0
Messrs. Erachshaw Manekji Mistri, Ardeshir Manekji Mistri and Pestonji Jamsetji Shroff.	Junction of Khetwadi 12th Lane and Khetwadi Back Road	25'18	25 0 0	629 8 0
Mr. Kikabhai Mahomedalli Karimbhai for himself and as guardian of (1) Ajgarali Abdulali Chitharia, (2) Salebhoy Abdulali Chitharia, and (3) Jenabai, daughter of Abdulali Chitharia.	Sarang Street	10'53	70 0 0	737 1 7
His Highness Sultan Ghalib bin Awad Jan Baz Jung Bahadur.	Victoria Road	287'24	13 0 0	3,734 1 11
Mr. Haji Tar Mahomed, Haji Janmahomed.	Mahim Custom Road... ..	20'62	7 0 0	144 5 5
Messrs. (1) Raghunath Jivan Kapadia, (2) Parbhudas Ranchord, (3) Lalji Dayal, (4) Chhaganlal Ratanji, Trustees of the Charitable Trust of Nandibai, widow of Oodhavji Meghji.	Bhuleshwar Road	9'48	200 0 0	1,896 0 0
Mr. Khimji Assur Virji through Messrs. Crawford Bayley & Co.	Mangesh Senoy Street	3'97	50 0 0	198 3 0
Bai Bibisabeb daughter of H. H. Agakhan.	Junction of Mount Road and Love Lane ...	396'06	15 0 0	5,940 14 5
Mr. Keshavlal S. Sanghani	Junction of Khetwadi Main Road and 2nd and 3rd Khetwadi Lanes.	131'00	30 0 0	3,930 0 0
Mr. Pooranmal Gooljee Singhanee...	Kalbadevi Road	33'67	250 0 0	8,417 8 0
Messrs. Haridas Purshottam, Dhanji Purshottam and Hirji Purshottam.	Vithalwady Street	27'64	80 0 0	2,211 3 2
Bai Merbai Jehangir Dalal and Darashaw Bamanji Dubash, Trustees of the Estate of Byramji Rustomji Baman Beram.	Colaba Road	38'62	30 0 0	1,158 9 7
Messrs. Crawford Bayley & Co. for Mr. Bholalal Chhotalal.	Junction of Abdul Rehman and Nakhoda Streets.	80'00	200 0 0	16,000 0 0
Messrs. Jamsheedji Bamanji Wadia, Bamanji Jamsheedji Wadia, Manekji Hormasji Wadia, Hormasji Ardeshir Wadia and Framji Rustomji Wadia, Trustees of the Hormasji Bamanji Wadia Fire Temple	Girgaum Road... ..	109'69	60 0 0	6,581 6 5
(1) Sir Jamsheedji Jijibhai Bart., Messrs. (2) H. A. Wadia, (3) Jijibhai M. Wadia, (4) M. R. Vazifdar, and (5) F. B. Wadia, Trustees of the late N. M. Wadia.	Tardeo Road	799'71	20 0 0	15,994 3 2
	Total	1,986'87	.....	68,582 13 8
		As originally proposed.	As subsequently sanctioned and paid.	
		Rs. a. p.	Rs. a. p.	
Average rate per square yard for compensation for land		34'52 or 34 8 4	54'24 or 54 3 10	
Do. do. do. for structure		6'99 or 6 15 10	3'07 or 3 1 1	
Do. do. do. for total amount		41'51 or 41 8 2	57'31 or 57 4 11 i.e., 38'06 per cent.	
Do. do. do. on interest, &c. ... ..		.....	2'87 or 2 13 11 i.e., 6'91 per cent.	
Do. do. do. on total amount as finally paid. ....		.....	60'18 or 60 2 10 i.e., 44'97 per cent.	

W. E. WAITE,
Chief Accountant.

No. 20.

originally sanctioned and at rates subsequently increased and on which payments were during 1916-17.

PROPOSED.		AS SUBSEQUENTLY SANCTIONED AND PAID.				REMARKS.
Compensation for Structure.	Total.	Rate per Square Yard.	Compensation for Land.	Compensation for Structure.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
924 0 0	1,933 8 0	125 0 0	1,682 8 0	{ 924 0 0 * 290 10 0 }	2,897 2 0	* Interest at Rs. 90-10-0 was agreed to be paid to the party against fees for the same amount recoverable from him for gallery projection permit.
.....	629 8 0	30 0 0	755 6 5	.....	755 6 5	
.....	787 1 7	85 0 0	895 0 10	.....	895 0 10	
1,823 0 0	5,557 1 11	15 0 0	4,308 9 7	1,823 0 0	6,131 9 7	
683 0 0	827 5 5	12 0 0	247 7 1	232 8 11	480 0 0	
843 0 0	2,739 0 0	250 0 0	2,370 0 0	843 0 0	3,213 0 0	
.....	198 8 0	175 0 0	694 12 0	{ * 101 14 0 † 51 0 0 ‡ 53 1 0 }	900 11 0	Interest at 6 per cent. per annum from 20-6-14 to 9-10-16. † Professional costs. ‡ Court costs.
976 0 0	6,916 14 5	16 0 0	6,336 15 4	976 0 0	7,312 15 4	
274 0 0	4,204 0 0	40 0 0	5,240 0 0	{ 290 0 0 * 198 15 2 }	5,728 15 2	* Interest at 6 per cent. per annum on Rs. 5,035-9-5 from 27-3-16 to 22-11-16.
2,547 0 0	10,964 8 0	.....	†† 17,000 0 0	‡ 1,064 10 8	18,064 10 8	†† Settled for a lump sum of Rs. 17,000. ‡ Interest at 6 per cent. per annum on Rs. 16,964-8-0 from 22-11-15 to 7-12-16.
.....	2,211 3 2	90 0 0	2,487 9 7	.....	2,487 9 7	
607 0 0	1,765 9 7	45 0 0	1,737 14 5	450 0 0	2,187 14 5	
4,659 0 0	20,659 0 0	.....	** 37,637 0 0	{ ¶ 2,818 11 7 || 51 0 0 § 135 13 0 }	40,642 8 7	** Amount awarded by the Court in lump sum. ¶ Interest at 6 per cent. per annum on Rs. 37,637-0-0 from 11-2-15 to 6-5-16 and on Rs. 1,252-0-0 from 7-5-16 to 18-10-16. || Professional costs. § Court costs.
557 0 0	7,138 6 5	80 0 0	8,775 3 2	{ 557 0 0 * 931 8 0 }	10,263 11 2	* Interest at 6 per cent. per annum on Rs. 9,332-3-2 from 7-9-14 to 18-12-15 and on Rs. 7,138-6-5 from 14-12-15 to 19-6-16.
.....	15,994 3 2	22 0 0	17,593 9 11	.....	17,593 9 11	
13,893 0 0	82,475 13 8	...	1,07,762 0 4	(a) 11,792 12 4	(a) 1,19,554 12 8	(a) Includes Rs. 5,697-3-5 for interest, court cost, &c.

P. W. MONIE,
Municipal Commissioner.

Appendix

Income of the Bombay Municipality from the year 1865

TAXATION PROPER.

Year.	Gross Valuation.	House Rate.	Police Rate.	Lighting Rate.	Wheel Tax and Tolls.	Licenses for trades, Land Conveyances, Music, etc.	Town Duties.	Liquor Licenses.	Tobacco Licenses.		Contribution from Insurance Companies or Fire Tax.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
1865	1,20,14,655	10,57,379	....	....	2,32,638	2,023	5,04,789	1,43,373	....	....	....
1866	1,48,94,893	7,16,004	2,93,683	98,417	3,13,330	2,72,665	5,132	46,924	1,20,390	....	....
1867	1,63,09,535	9,84,068	4,11,040	1,82,849	2,88,178	2,05,536	....	1,04,898	1,18,426	....	....
1868	1,47,49,075	9,20,587	3,75,607	2,46,071	2,68,514	2,08,820	....	1,20,566	1,36,762	....	....
1869	1,39,41,260	7,99,306	2,59,583	2,48,406	2,57,574	1,50,361	3,03,298	2,49,077	1,51,178	....	....
1870	1,36,20,885	7,22,783	2,37,643	2,46,994	2,50,581	28,147	5,94,989	1,23,692	1,39,830	....	....
1871	1,34,26,845	6,75,489	2,30,409	2,30,256	2,05,521	7,655	4,51,496	1,15,170	1,23,046	....	....
1872	1,29,83,510	7,09,953	2,41,774	2,41,348	2,04,097	5,862	4,67,638	59,914	1,47,654	....	....
1873	1,26,71,816	7,01,013	2,37,282	2,37,050	2,16,053	87	4,46,924	2,79,074	1,48,792	....	....
1874	1,19,65,390	5,94,814	2,29,102	2,27,525	2,48,217	3,908	4,35,649	1,24,507	1,47,779	....	16,519
1875	1,15,56,086	5,52,738	2,20,569	2,16,632	2,45,274	594	6,72,987	1,58,980	1,45,936	....	14,355
1876	1,12,78,710	5,73,458	2,17,684	2,13,084	2,38,487	2,113	6,36,147	1,41,725	1,43,556	....	13,922
1877	1,14,77,690	5,47,541	2,20,061	2,14,670	2,44,369	1,948	7,51,019	85,697	1,49,562	....	13,164
Consolidated Rate.											
1878	1,15,37,118	....	9,35,084	....	2,14,560	....	6,95,006	1,80,565	1,52,229	....	22,573
1879	1,14,93,417	....	10,52,773	....	2,25,569	3,563	5,33,617	1,43,750	1,65,029	....	20,761
1880	1,17,82,525	....	8,99,634	....	2,31,925	848	6,67,784	1,43,750	1,61,127	....	23,911
1881	1,17,14,470	@8% ^c	10,58,810	....	2,31,866	1,502	6,37,492	1,43,750	1,61,625	....	24,059
For 15 months, i.e., from 1st January 1882 to 31st March 1883, the calendar year											
1882-83	1,25,80,263	....	12,34,975	....	4,12,027	....	8,17,199	1,43,750	2,06,014	....	32,000
1883-84	1,46,64,507	@8% ^c	9,83,538	....	2,55,227	3,417	6,67,113	1,79,687	1,74,306	....	24,708
1884-85	1,58,82,744	Do.	11,80,307	....	3,09,552	4,305	7,73,431	1,43,750	1,72,622	....	25,517
1885-86	2,00,25,223	Do.	14,61,305	....	3,32,485	4,525	6,79,293	1,43,750	1,79,177	....	29,914
1886-87	2,16,27,230	@8½% ^c	14,88,867	....	3,19,561	3,913	10,12,152	1,43,750	1,90,250	....	29,776
1887-88	2,27,92,346	@8% ^c	14,07,013	....	3,36,993	4,050	9,95,750	1,43,750	1,84,168	(a) Fire tax	37,857
1888-89	2,39,51,043	Do.	14,66,024	....	3,14,571	45,471	7,25,897	1,43,750	1,91,297	@1% ^c	34,708
1889-90	2,73,64,359	Do.	15,82,509	....	3,25,616	52,792	6,67,065	1,43,750	1,90,922	....	(a) 79,187
1890-91	2,82,27,355	Do.	15,64,932	....	3,56,648	60,451	9,79,520	1,43,750	1,80,264	@2% ^c	1,25,345
1891-92	2,85,80,023	Do.	17,55,081	....	3,42,973	75,101	8,40,222	1,43,750	1,86,151	Do.	1,64,263
1892-93	2,64,03,982	Do.	17,73,501	....	3,44,905	79,376	9,73,928	1,43,750	1,86,703	Do.	1,65,838
1893-94	2,69,79,728	Do.	17,49,321	....	3,51,175	85,817	8,97,256	1,43,750	1,86,829	@½% ^c	1,10,504
1894-95	2,76,13,741	Do.	17,49,385	....	3,56,082	95,137	8,88,642	1,43,750	2,05,348	Do.	1,09,325
1895-96	2,82,56,881	Do.	17,67,000	....	3,65,625	96,335	9,10,851	1,43,750	2,17,475	Do.	1,10,437
1896-97	2,89,27,618	Do.	17,45,829	....	2,46,681	74,085	6,45,144	1,43,750	1,82,867	Do.	1,09,138
1897-98	2,94,82,805	Do.	19,35,325	....	3,46,838	88,663	9,51,424	1,43,750	1,89,323	Do.	1,20,961
1898-99	2,98,53,636	@9% ^c	21,06,995	....	3,39,197	87,754	11,17,161	1,43,750	2,08,544	Do.	1,17,219
1899-1900	3,05,17,091	@12% ^c	28,74,389	....	3,02,748	90,346	15,94,721	1,43,750	2,21,338	Do.	1,30,127
1900-1901	3,13,75,106	Do.	28,94,971	....	3,21,366	95,702	11,31,371	1,43,750	2,16,939	Do.	1,20,647
1901-02	3,18,11,625	@10% ^c	25,72,001	....	3,40,747	92,733	8,62,123	1,43,750	2,33,065	Do.	1,27,570
1902-03	3,18,91,400	Do.	25,81,510	....	3,71,013	1,02,070	12,19,346	1,43,750	2,44,092	Do.	1,23,049
1903-04	3,44,49,599	Do.	27,64,974	....	3,28,070	1,05,511	11,68,973	1,43,750	2,40,064	Do.	1,38,163
1904-05	3,54,15,934	Do.	30,26,572	....	4,19,587	1,08,772	14,16,943	1,43,750	2,60,744	Do.	1,51,302
1905-06	3,81,90,177	@8½% ^c	27,55,778	....	4,48,343	98,923	11,68,450	1,43,750	2,72,779	@3% ^c	1,20,057
1906-07	4,14,48,901	Do.	29,58,345	....	4,42,749	1,03,221	13,34,074	1,43,750	2,65,828	Do.	1,38,631
1907-08	4,42,79,940	@8% ^c	29,74,517	....	4,29,392	1,06,284	13,90,203	1,43,750	2,80,355	Do.	1,39,329
1908-09	4,68,75,766	Do.	31,47,349	....	4,79,857	1,19,278	12,96,320	1,43,750	2,78,890	Do.	1,47,522
1909-10	4,94,44,957	@9% ^c	38,05,816	....	5,01,553	97,754	14,23,491	1,43,750	2,39,614	Do.	1,63,267
1910-11	5,20,51,478	@10½% ^c	43,51,680	....	4,72,198	99,314	16,86,660	1,43,750	2,59,907	@4% ^c	2,15,094
1911-12	5,36,02,464	Do.	47,42,693	....	4,69,487	1,13,777	12,47,097	1,43,750	2,78,896	Do.	2,33,627
1912-13	5,51,71,773	Do.	47,18,833	....	5,23,522	1,21,773	17,42,131	1,43,750	2,83,626	Do.	2,33,029
1913-14	5,79,47,463	@9½% ^c	46,41,022	....	5,61,500	1,29,771	17,30,637	1,43,750	2,91,283	Do.	2,44,283
1914-15	5,98,41,390	Do.	48,49,431	....	5,19,818	1,37,640	9,33,310	1,43,750	2,92,036	@5% ^c	1,92,018
1915-16	6,34,16,191	Do.	52,31,267	....	5,18,773	1,27,537	20,19,097	1,43,750	3,04,644	Do.	2,06,494
1916-17	6,54,13,855	Do.	52,16,432	....	5,61,416	1,31,072	18,70,335	1,43,750	3,52,877	Do.	2,09,911

W. E. WAITE,

Chief Accountant.

No. 21.

to close of the financial year 1916-1917.

Total Taxation Proper.	SERVICES RENDERED.		Total services rendered.	MISCELLANEOUS.		Total Income.	Year.	Population by Census.	Incidence of taxation per head of popula- tion.	Five years' average annual income.
	Halalkhore Tax.	Water Tax.		Govern- ment con- tribution for Police and City Improvement Trust.	Returns from Property and Miscel- laneous.					
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			Rs. a. p.	
19,42,762		1,78,719	1,78,719		2,42,306	23,63,787	1865	8,16,562	2 9 6	31,12,976
18,56,545	1,92,852	6,49,121	8,41,973	....	2,06,154	29,14,672	1866	....	3 5 1	
22,44,906	1,45,824	3,73,006	5,18,830	1,50,000	1,26,739	30,40,524	1867	....	3 6 1	
22,76,927	3,91,454	4,98,377	8,89,831	2,60,129	4,26,787	38,52,674	1868	....	3 14 0	
24,18,773	2,30,562	3,62,998	5,93,560	1,09,882	2,71,011	38,98,226	1869	....	3 11 0	
23,44,659	2,13,197	3,66,986	5,80,183	1,09,882	2,78,025	43,07,749	1870		3 9 3	31,06,534
20,44,042	1,99,986	3,57,578	5,57,564	....	2,69,554	28,71,160	1871	....	3 2 11	
20,78,246	2,17,071	4,07,835	6,24,906	....	3,45,165	36,48,331	1872	6,44,405	4 3 1	
20,66,275	2,00,690	4,00,639	6,01,229	....	4,56,604	33,24,108	1873	....	4 7 2	
20,78,020	1,92,235	3,63,087	5,55,322	....	3,47,980	29,81,322	1874	....	4 1 4	
22,28,085	1,94,215	3,00,212	4,94,427	90,000	3,31,014	31,43,526	1875		4 3 7	32,09,805
21,84,986	2,04,077	3,08,377	5,12,454	90,000	3,90,283	31,77,723	1876	....	4 2 11	
22,34,031	2,01,299	3,11,823	5,13,122	90,000	4,04,299	32,41,452	1877	....	4 4 2	
21,79,968	1,95,380	2,92,780	4,88,160	90,000	3,87,025	31,45,153	1878	....	4 2 2	
21,45,062	2,42,015	3,54,798	5,96,813	90,000	5,09,299	38,41,174	1879	....	4 4 0	
21,18,977	2,03,047	3,90,703	5,93,750	75,000	4,64,173	32,51,870	1880		4 3 4	33,37,843
22,59,094	2,81,805	5,24,319	8,06,624	50,000	7,57,976	38,73,694	1881	7,73,196	3 15 5	
28,45,965	3,28,918	6,70,677	9,99,593	91,125	6,76,575	46,12,340	1882-83	....	4 15 6	
22,87,996	2,43,557	5,47,647	7,91,204	85,672	5,72,400	37,37,272	1883-84	....	3 15 8	
25,83,967	2,89,616	5,96,123	8,85,739	90,000	6,54,162	42,13,868	1884-85	....	4 7 9	
28,30,449	3,16,787	6,66,370	9,82,157	90,000	5,71,367	44,73,973	1885-86		4 14 10	49,70,136
31,88,299	3,18,630	7,74,651	10,93,281	....	6,20,214	49,01,814	1886-87	....	5 8 7	
31,10,581	3,72,258	8,83,724	12,55,982	....	7,98,967	51,66,530	1887-88	....	5 10 4	
29,21,718	3,90,039	9,63,804	13,53,843	....	6,90,632	49,66,193	1888-89	....	5 8 5	
30,41,841	4,73,919	11,23,005	15,96,925	....	7,03,403	53,42,169	1889-90	....	5 15 11	
34,10,930	5,27,222	11,49,198	16,76,420		(a) 10,78,551	61,65,901	1890-91		6 9 3	64,74,319
35,07,542	5,55,877	11,81,429	17,37,306	....	9,88,335	62,33,183	1891-92	3,21,764	6 6 1	
36,68,001	6,22,200	14,07,081	20,29,281	....	9,75,661	66,72,943	1892-93	....	6 14 11	
35,24,652	5,82,026	13,86,898	18,68,654	....	(b) 13,89,189	67,62,699	1893-94	....	6 9 0	
35,47,569	6,81,557	13,88,265	20,69,822	....	9,21,981	66,39,372	1894-95	....	6 13 4	
36,11,373	6,57,812	14,42,895	21,00,707		(c) 10,49,630	67,61,710	1895-96		6 15 2	72,21,595
31,47,404	6,88,486	13,98,410	20,86,896	....	9,74,568	62,08,978	1896-97	....	6 5 10	
37,76,234	7,35,485	13,29,852	20,65,337	....	(d) 13,03,939	71,45,569	1897-98	....	7 1 3	
41,30,620	7,13,122	15,00,970	22,14,092	....	8,27,199	71,61,911	1898-99	....	7 11 4	
53,47,419	7,25,264	17,72,967	24,98,331	....	9,84,167	88,29,817	1899-1900	....	9 8 9	
49,34,736	7,14,440	17,35,635	24,50,075		10,28,937	84,02,848	1900-01		8 15 7	84,32,806
43,71,969	7,83,439	15,47,120	23,35,559	....	10,59,131	77,66,729	1901-02	7,76,006	8 10 3	
47,53,330	7,95,984	15,13,976	23,09,960	....	10,74,898	81,78,688	1902-03	....	9 2 4	
49,59,505	8,10,610	15,71,566	23,82,176	....	11,40,944	84,82,625	1903-04	....	9 7 4	
55,22,670	8,75,194	17,14,453	25,89,647	....	12,23,794	93,36,111	1904-05	....	10 7 3	
50,06,080	9,32,655	18,57,730	27,90,435		12,96,024	90,92,539	1905-06		10 0 9	1,00,26,055
53,76,598	9,91,382	19,88,429	29,29,791	....	13,42,112	96,48,501	1906-07	9,77,822	8 7 10	
54,64,330	10,46,874	19,48,330	29,95,704	....	14,29,290	98,89,324	1907-08	....	8 10 5	
56,12,966	11,19,322	20,04,189	31,23,411	....	15,49,671	1,02,86,048	1908-09	....	8 14 11	
64,16,245	11,92,346	20,11,788	32,04,134		15,93,485	1,12,13,864	1909-10		9 13 5	1,25,76,679
72,38,533	12,32,951	19,95,327	32,28,278	....	17,29,288	1,21,96,149	1910-11	9,79,445	10 11 0	
72,29,327	12,94,697	20,79,120	33,71,817	....	20,54,645	1,26,56,789	1911-12	....	10 13 2	
77,66,564	13,50,338	21,70,948	35,21,781	....	14,53,244	1,27,41,589	1912-13	....	11 8 5	
77,42,246	13,85,128	22,65,444	36,70,562	....	14,63,693	1,28,76,504	1913-14	....	11 19 5	
70,57,003	14,17,644	22,16,012	36,33,656		17,22,703	1,24,13,866	1914-15		10 14 8	1,39,39,904
86,51,602	14,63,387	23,33,021	37,91,608	....	14,67,860	1,58,31,670	1915-16	....	12 9 8	
84,51,793	15,25,637	24,71,834	39,97,471		16,09,475	1,40,48,759	1916-17		12 11 11	

(a) Includes Rs. 2,32,544 for arrear recoveries for work done.

(b) Rs. 4,53,699 adjusted on account of premia on loans.

(c) Includes premia of Rs. 97,749 on loan raised

(d) Includes rebate of Plague expenses amounting to Rs. 4,37,055.

(e) Exclusive of the amount of interest realized on Sinking and Special Funds which was hitherto treated as Income.

P. W. MONIE,
Municipal Commissioner.

Appendix

Expenditure of the Bombay Municipality from the

Year.	General Superintendence.	Assessment and Collection.	Fire Brigade.	Public Works (Engineering) Department.	Public Health Department.	General Stores.	Pensions and Gratuities.	Police Charges.	Education.	Medical Relief.	Debt.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1865	94,354	1,26,472	Not	31,52,722	3,15,914	Not	345	1,41,931	....	....	....
1866	1,31,622	58,638	traceable.	13,32,917	14,40,293	traceable.	14,430	3,96,169	....	....	20,554
1867	61,337	71,531		17,38,626	14,26,321		2,580	4,25,423	....	....	73,360
1868	70,990	87,602	22,708	12,29,584	10,45,862	9,012	3,733	4,17,083	....	....	2,19,577
1869	1,09,879	1,25,691	23,318	12,51,429	8,57,425	8,312	5,634	3,25,637	....	....	3,31,368
1870	1,32,202	1,12,458	30,896	13,73,897	8,29,734	8,046	10,354	4,24,905	....	....	4,46,187
1871	1,22,853	1,12,551	31,261	16,11,527	7,84,485	6,482	7,758	5,90,579	7,948	....	4,75,704
1872	1,13,930	1,38,354	54,435	12,89,987	7,61,354	*	7,221	3,27,209	9,321	....	2,52,971
1873	1,16,575	1,41,308	20,546	10,70,919	7,96,860	*	6,996	3,40,892	10,000	....	5,06,270
1874	1,11,860	1,29,023	25,316	10,53,929	7,38,139	*	8,030	3,44,325	10,000	....	5,09,023
1875	1,13,902	1,36,706	20,063	9,90,091	7,42,958	*	4,891	3,52,920	10,000	36,000	7,15,561
1876	1,09,189	1,42,267	37,754	9,70,195	7,07,681	....	11,157	3,57,734	10,000	36,000	7,09,127
1877	1,10,164	1,43,672	24,193	8,98,543	7,49,550	....	8,301	3,54,535	10,000	36,000	6,27,732
1878	1,15,597	1,44,487	27,517	8,13,057	7,90,481	....	8,008	3,61,581	15,000	36,000	8,64,223
1879	1,21,997	1,34,372	23,960	8,38,687	8,04,295	....	12,084	3,64,304	17,000	36,000	6,91,903
1880	1,28,498	1,37,726	24,800	8,36,191	7,52,410	....	7,749	3,59,166	17,500	36,000	6,42,860
1881	1,28,951	1,52,107	29,242	9,16,699	7,98,021	....	8,658	3,57,752	17,500	20,435	7,47,209
For 15 months from 1st January 1882 to 31st March 1883, the calendar											
1882-83	1,82,715	1,87,858	73,665	14,01,108	10,14,785	....	12,803	4,54,034	28,125	34,948	12,28,882
1883-84	2,01,021	1,49,317	55,389	10,55,338	9,16,316	....	40,333	3,62,508	22,500	27,892	8,12,061
1884-85	1,66,256	1,64,917	64,977	11,51,551	9,19,967	....	23,293	3,61,748	22,500	34,512	7,37,608
1885-86	1,66,827	1,84,717	43,854	12,34,529	9,95,607	....	18,318	3,59,223	23,700	31,349	7,87,527
1886-87	1,73,090	2,17,134	70,904	13,03,859	10,10,118	....	19,133	2,61,914	32,604	48,386	8,93,553
1887-88	1,70,945	2,12,138	69,670	13,64,393	10,75,735	....	30,531	2,61,348	1,34,715	40,753	23,27,682
1888-89	1,69,223	1,98,820	1,12,328	14,91,441	11,56,410	....	19,470	2,59,140	50,882	36,857	14,90,115
1889-90	1,77,133	1,92,643	93,907	13,62,241	11,96,577	....	29,139	2,58,285	60,558	35,246	14,85,711
1890-91	1,82,198	2,23,854	1,29,291	15,92,039	13,02,064	....	32,117	2,58,285	68,646	38,601	15,53,139
1891-92	1,91,028	2,41,902	88,671	15,99,073	12,92,529	....	33,890	2,58,285	80,722	50,264	16,37,405
1892-93	1,90,920	2,52,113	1,47,694	17,72,512	13,01,563	....	29,845	3,63,625	87,565	49,576	21,97,233
1893-94	2,29,517	2,42,413	1,06,315	15,41,703	13,39,614	....	37,560	3,30,272	88,015	52,476	21,27,457
1894-95	2,11,621	2,47,771	1,14,144	16,67,335	13,70,168	....	46,568	3,74,022	87,280	61,456	20,26,571
1895-96	1,99,317	2,40,990	1,15,981	17,31,317	13,75,234	....	48,452	5,01,096	88,481	56,260	21,19,651
1896-97	1,99,641	2,48,159	1,07,654	15,55,649	14,09,387	....	58,601	5,51,589	88,889	53,101	20,56,123
1897-98	2,14,732	2,50,483	1,18,508	16,10,387	15,86,633	....	70,096	5,00,000	1,02,624	54,233	22,60,571
1898-99	2,10,380	2,57,182	1,09,076	14,19,617	16,89,174	....	56,866	5,01,013	1,14,776	55,271	24,81,138
1899-1900	1,97,643	2,72,850	1,17,098	16,01,898	20,30,444	....	66,034	5,00,000	1,11,990	54,997	23,40,269
1900-01	2,23,044	3,26,719	1,18,639	17,01,178	21,68,479	....	75,929	6,02,455	1,11,930	58,977	25,63,311
1901-02	2,13,036	2,34,004	1,21,728	15,71,437	20,07,084	....	56,440	5,00,022	1,12,513	57,000	26,56,575
1902-03	2,16,767	2,92,939	1,10,182	15,90,956	20,05,939	....	68,852	5,97,504	1,10,474	56,290	27,11,361
1903-04	2,34,069	2,99,459	1,24,119	16,65,761	19,79,374	....	57,487	5,00,381	1,12,858	54,825	29,18,564
1904-05	2,29,315	3,18,017	1,34,282	18,81,039	18,46,462	15,904	74,324	5,01,076	1,59,763	57,400	28,33,568
1905-06	2,43,603	3,24,580	1,23,986	19,54,844	19,91,160	19,269	71,778	5,00,000	1,61,420	57,666	29,82,171
1906-07	3,08,306	3,29,381	1,28,015	19,39,665	21,46,791	27,309	75,303	5,01,862	1,65,815	56,218	31,77,715
1907-08	2,59,564	3,66,403	1,69,574	21,17,200	22,87,706	31,328	74,395	1,38,460	2,65,350	4,50,151	32,26,943
1908-09	2,71,046	3,73,684	1,71,929	23,92,891	24,34,002	29,456	65,623	....	2,76,685	4,64,555	32,98,247
1909-10	3,09,102	3,69,460	1,66,963	23,86,781	23,64,080	30,859	69,317	....	2,92,256	4,62,579	33,77,184
1910-11	2,89,088	3,35,546	1,88,087	24,68,332	21,03,537	31,063	84,244	....	4,17,124	4,64,416	36,07,569
1911-12	2,93,600	3,75,204	1,79,978	24,87,700	21,40,626	33,054	86,701	....	4,20,311	4,72,868	37,14,629
1912-13	3,14,525	4,41,506	2,27,304	25,52,134	23,15,511	34,699	96,913	....	4,18,511	4,46,160	38,43,317
1913-14	3,11,653	4,41,694	1,66,104	29,41,743	23,19,128	35,094	1,07,489	....	4,85,285	4,41,840	39,34,230
1914-15	3,13,576	4,16,898	1,85,577	30,02,430	23,15,264	36,771	1,11,204	....	5,03,224	4,59,260	37,62,252
1915-16	3,19,680	4,51,638	1,92,455	30,15,184	23,93,411	38,277	1,15,167	....	5,43,346	4,37,810	39,34,821
1916-17	3,39,014	4,93,598	1,92,598	31,61,770	25,00,855	40,588	1,46,500	....	6,91,878	4,35,960	44,11,104

Combined with Controller's Office.

W. E. WAITE,
Chief Accountant.

No. 22.

year 1865 to the year 1916-1917.

Contribution to the Bombay Improvement Trust.	Public Gardens.	Stores, Plant and Live Stock.	Municipal Building Fund.	Road Improvement Fund.	Investments Fund.	Plague Expenses.	Miscellaneous.	Total.	Year.	Five years' average annual expenditure.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
....		5,10,250					1,17,845	49,59,333	1865	} 38,77,203
....	....	82,059	....	....	....	....	1,25,249	36,01,922	1866	
....	....	2,70,545	....	....	....	....	1,49,623	42,16,346	1867	
....	....	3,32,722	....	....	....	....	37,775	34,77,068	1868	
....	....	....	....	....	....	....	42,665	31,31,353	1869	
....							23,416	33,92,185	1870	} 32,69,595
....	....	....	....	....	....	....	53,213	38,04,661	1871	
....	27,273	....	....	....	....	....	(a) 1,57,633	31,15,888	1872	
....	11,857	....	....	....	....	....	22,354	30,44,577	1873	
....	14,473	....	....	....	....	....	46,645	29,90,693	1874	
....	18,282						(b) 1,19,851	32,65,027	1875	} 31,68,669
....	21,638	....	....	....	....	....	47,696	31,60,438	1876	
....	20,221	....	....	....	....	....	55,559	30,36,535	1877	
....	21,190	....	....	....	....	....	71,103	32,70,224	1878	
....	17,709	....	....	....	....	....	51,791	31,11,123	1879	
....	20,756						44,321	30,57,992	1880	} 38,41,485
....	19,403	....	2,50,000	....	....	....	(c) 3,52,835	37,98,872	1881	
year being changed to the financial year, the expenditure was :-										
....	26,969		50,000	19,000			38,740	47,58,632	1882-83	} 48,59,951
....	20,263	....	20,000	....	....	....	33,934	37,15,812	1883-84	
....	22,738	....	801	....	....	....	(d) 2,11,150	38,31,020	1884-85	
....	23,864	....	99,199	....	....	....	98,226	40,66,240	1885-86	
....	38,326	....	49,779	....	....	....	57,562	41,73,362	1886-87	
....	42,123		50,221				32,436	53,12,690	1887-88	} 62,69,972
....	48,933	....	55,577	....	....	....	(e) 1,12,356	52,01,258	1888-89	
....	65,153	....	24,459	....	3,000	....	58,553	50,42,405	1889-90	
....	87,805	....	28,907	....	3,113	....	(f) 1,85,807	56,84,861	1890-91	
....	77,225	....	27,905	....	3,274	....	2,07,780	57,92,673	1891-92	
....	96,964				3,886		52,565	45,45,512	1892-93	} 71,87,147
....	(f) 2,80,463	....	....	....	5,64,972	....	23,321	69,68,928	1893-94	
....	93,969	....	....	....	44,086	....	28,485	63,72,486	1894-95	
....	64,923	....	....	....	1,46,180	....	15,519	67,02,516	1895-96	
....	60,312	....	....	....	1,42,601	4,37,055	35,503	70,04,743	1896-97	
....	71,447				36,478	5,00,000	1,20,712	74,96,969	1897-98	} 84,37,384
....	74,959	....	....	....	37,425	5,00,000	(g) { 8,12,546 19,673 }	73,39,026	1898-99	
....	75,250	....	....	....	35,316	43,694	32,385	73,92,480	1899-1900	
4,74,605	69,370	....	....	....	58,400	922	1,86,444	85,84,058	1900-01	
4,81,000	57,685	....	....	....	59,259	....	38,695	82,26,458	1901-02	
5,00,000	58,374				66,136		75,124	84,53,398	1902-03	} 1,02,22,281
3,50,000	67,422	....	....	....	33,265	....	34,006	84,31,390	1903-04	
2,50,000	66,092	....	....	....	35,399	1,81,920	57,312	85,91,618	1904-05	
2,50,000	64,751	....	....	....	39,377	2,26,638	(h) 3,62,369	93,74,243	1905-06	
3,00,000	64,735	....	....	....	39,626	2,43,044	18,945	95,20,790	1906-07	
2,56,081	75,153				44,445	1,95,517	1,30,930	1,01,89,201	1907-08	} 1,35,09,081
4,50,000	92,905	....	....	....	47,843	2,53,328	37,952	1,06,30,126	1908-09	
7,80,000	98,964	....	....	....	1,21,917	2,00,915	(i) 3,65,173	1,13,97,050	1909-10	
8,33,000	91,210	....	....	....	49,473	1,37,234	1,31,399	1,12,31,373	1910-11	
8,65,000	76,091	....	....	....	57,633	1,55,933	1,25,774	(j) 1,14,84,562	1911-12	
9,25,000	83,982				10,000	1,47,763	2,25,882	(k) 1,68,1,387	1912-13	} 1,17,90,028
9,32,093	91,683	....	....	....	10,000	1,24,682	2,16,193	(l) 1,20,48,925	1913-14	
9,76,938	92,295	....	....	....	10,000	1,27,633	1,69,869	(m) 1,24,53,191	1914-15	
10,17,420	89,738	....	....	....	10,000	1,27,912	(n) 1,24,031	1,28,03,870	1915-16	
11,01,239	90,490	....	....	....	(p) 3,08,135	1,29,958	(o) 2,37,730	1,214,292	1916-17	

- (a) Includes write-off of loss of in stores of Rs. 1,15,983.
 (b) Includes Rs. 50,000 for visit of H. R. H. the Prince of Wales.
 (c) Includes special adjustment of Rs. 3,24,827 for re-arranging the different loan funds.
 (d) Includes loss of Rs. 1,34,774 on the sale of the Panvel Brick Factory.
 (e) Includes Rs. 62,048 for loss on sale of investments.
 (f) Includes Rs. 1,94,563 for land acquired.
 (g) Write-off on account of frontage lands in Agripada.
 (h) Includes contribution of Rs. 3,00,000 towards celebrating the visit of T. R. H. the Prince and Princess of Wales.
 (i) Includes charges for Grain Compensation and Local Allowances and the loss sustained in the sale of unserviceable stores written off.
 (j) Excludes Rs. 5,00,000 transferred from revenue for writing off a portion of the Plague expenditure advanced from Loan Funds.

- (k) Excludes Rs. 8,10,033 transferred from revenue for writing off a portion of the Plague expenditure advanced from Loan Funds as well as the amount of investment of interest realized on Sinking and Special Funds.
 (l) Excludes Rs. 1,00,000 transferred from revenue for writing off the balance of the Plague expenditure advanced from Loan Funds as well as the amount of investment of interest realized on Sinking and Special Funds.
 (m) Excludes Rs. 35,455 being the write-off of the proportionate cost (paid out of Loan Funds) of the Halaikholes' Chawl at Vincent Road sold to the City Improvement Trust as well as the amount of investments of interest realized on Sinking and Special Funds.
 (n) Includes Rs. 25,000 being the contribution towards the cost of cadastral survey of the town and island of Bombay.
 (o) This includes Rs. 1,29,312 on account of discount on the conversion of 3 per cent. or 3½ per cent. Government Paper into 4 per cent. conversion loan of 1916-17.
 (p) This includes Rs. 2,38,135 being the amount of investment on account of sale proceeds of Municipal lands into Municipal Land and Building Fund.

P. W. MONIE,
Municipal Commissioner.

Appendix No. 23.

CONTRASTED STATEMENT OF INCOME AND EXPENDITURE OF THE BOMBAY MUNICIPALITY FROM 1865 TO 1916-17.

YEAR.	Income.	Expenditure.	DIFFERENCE.	
			Surplus.	Deficit.
	Rs.	Rs.	Rs.	Rs.
1865	23,63,787	49,59,333	.....	25,95,546
1866	29,14,672	36,01,922	.....	6,87,250
1867	30,40,524	42,16,346	.....	11,75,822
1868	38,52,674	34,77,058	3,75,616	.....
1869	33,93,226	31,31,358	2,61,868	.....
1870	33,07,749	33,92,185	.....	84,436
1871	28,71,160	38,04,661	.....	9,33,501
1872	30,48,331	31,15,888	.....	67,557
1873	33,24,108	30,44,577	2,79,531	.....
1874	29,81,322	29,90,663	.....	9,341
1875	31,43,526	32,65,027	.....	1,21,501
1876	31,77,723	31,60,438	17,285	.....
1877	32,41,452	30,36,535	2,04,917	.....
1878	31,45,153	32,70,224	.....	1,25,071
1879	33,41,174	31,11,122	2,30,052	.....
1880	32,51,870	30,57,992	1,93,878	.....
1881	38,73,694	37,98,872	74,822	.....
From 1st January 1882 to 31st March 1883 (15 months).	46,12,240	47,53,632	.....	1,41,392
1883-1884	37,37,272	37,15,812	21,460	.....
1884-1885	42,13,868	38,81,020	3,32,848	.....
1885-1886	44,73,973	40,66,940	4,07,033	.....
1886-1887	49,01,814	41,76,362	7,25,452	.....
1887-1888	51,66,530	58,12,690	.....	6,46,160
1888-1889	49,66,193	52,01,258	.....	2,35,065
1889-1890	53,42,169	50,42,405	2,99,764	.....
1890-1891	61,65,901	56,84,861	4,81,040	.....
1891-1892	62,33,183	57,82,073	4,51,110	.....
1892-1893	66,72,943	65,45,512	1,27,431	.....
1893-1894	67,62,695	69,63,928	.....	2,01,233
1894-1895	65,39,372	63,73,486	1,65,886	.....
1895-1896	67,61,710	67,02,516	59,194	.....
1896-1897	62,08,978	70,04,743	.....	7,95,765
1897-1898	71,45,560	74,96,969	.....	3,51,409
1898-1899	71,61,911	73,39,026	.....	1,77,115
1899-1900	88,29,817	73,92,480	14,37,337	.....
1900-1901	84,02,848	85,84,058	.....	1,81,210
1901-1902	77,66,729	82,26,458	.....	4,59,729
1902-1903	81,75,688	84,53,398	.....	2,77,710
1903-1904	84,82,625	84,31,390	51,235	.....
1904-1905	93,36,111	85,91,618	7,14,493	.....
1905-1906	90,92,539	93,74,242	.....	2,81,703
1906-1907	96,48,501	95,20,790	1,27,711	.....
1907-1908	98,89,324	1,01,89,201	.....	2,99,877
1908-1909	1,02,86,048	1,06,30,126	.....	3,44,078
1909-1910	1,12,13,864	1,13,97,050	.....	1,83,186
1910-1911	1,21,96,149	1,12,81,872	9,14,277	.....
1911-1912	1,26,55,789	* 1,14,84,562	11,71,227	.....
1912-1913	1,27,41,589	(a) 1,16,81,587	10,60,002	.....
1913-1914	1,28,76,501	(b) 1,20,48,926	8,27,575	.....
1914-1915	1,24,13,366	(c) 1,24,53,191	.....	39,825
1915-1916	1,38,31,070	1,28,08,870	10,27,200	.....
1916-1917	1,40,48,739	1,42,14,292	.....	1,65,553

* This is exclusive of Rs. 5,00,000 utilized towards writing off a portion of the Plague expenditure.

(a) D. 3,10,052-7-4 do do.

(b) Do. 1,00,000 do the balance do.

(c) This is exclusive of Rs. 35,455 being the write-off of the proportionate cost (paid out of Loan Funds) of the Halalkhori chaw at Vincent Road sold to the City Improvement Trust.

W. E. WAITE,
Chief Accountant.

P. W. MONIE,
Municipal Commissioner.

REVENUE.

REPORT on the working of the Assessment and Collection Department for the year 1916-17 by Khan Bahadur B. D. Banaji, Assessor and Collector, forwarded with his No. 9543, dated 31st May 1917.

1. The total amount collected under all heads, exclusive of tolls, miscellaneous receipts and fees was Rs. 96,59,428-7-1 against the estimate of Rs. 93,06,500, a difference of Rs. 3,52,928-7-1, detailed as under:—

Taxes.					Estimate.	Actual collections including adjustments.				Increase.
					Rs.	Rs.	a.	p.		Rs. a. p.
General Tax...	...	...	...	...	53,25,000	54,52,456	15	1		1,27,456 15 1
Water Tax*	...	...	...	...	22,36,000	24,04,135	5	8		1,68,135 5 8
Halalkhore Tax	...	...	...	...	15,00,000	15,37,290	14	0		37,290 14 0
Wheel Tax ...	...	...	...	...	2,45,500	2,65,545	4	4		20,045 4 4
Total ...					93,06,500	96,59,428	7	1		3,52,928 7 1

* Exclusive of meter hire and receipts by the Hydraulic Engineer.

2. As compared with the total collections for 1915-16, viz., Rs. 94,63,610-8-3, the collections for 1916-17, viz., Rs. 96,59,428-7-1 are more by Rs. 1,95,817-14-10.

3. On 31st March 1917, the outstandings for property taxes, charges for water by meter and wheel tax (private) were Rs. 65,387-9-0 against Rs. 42,409-0-7 on 31st March 1916, of which Rs. 19,268-1-0 have been collected or adjusted up to 24th May 1917, leaving at that date Rs. 46,119-8-0 outstanding for all previous years. Out of this sum Rs. 82-6-0 are irrecoverable and Rs. 31,074-7-5 are disputed as under:—

Particulars.	Bills.	Amount.		
		Rs.	a.	p.
College hostels (The question of exemption from General Tax is pending reference to the High Court)	35	7,574	1	5
Claims presented to the Official Assignee and Receivers in cases of Insolvents, &c.	20	1,666	7	1
Small Causes Court de res obtained	19	294	8	6
Disputes about valuations of water by meter, etc.	135	21,539	6	5
Total	209	31,074	7	5

4. Properties in the Assessment Book on 31st March 1917 were 63,051 as under against 62,356 on 31st March 1916:—

Buildings	...	...	...	...	40,864
Salt pans	...	...	...	...	109
Lands (including tanks, wells, &c.)	...	...	...	...	22,078
Total	...	...	...	...	63,051

Of this number 52,415 were assessed for the General Tax, 2,166 were exempted under Section 143 (1) (A) (B) of the Municipal Act, 6,763 were not charged the General Tax, being small plots of waste lands, houses marked "Unfit for human habitation," the assessments of which were temporarily reduced to a nominal value of Rs. 6, for which no bills were issued. The number of Municipal properties which are not assessed under Section 143 (1) (b) of the Act is 1707.

5. The number of buildings newly erected, demolished and enlarged in 1916-17 was 1,171, 1,075 and 425 respectively.

6. The assessments of properties contrasted with those of 1915-16 were :—

Year.	Original Assessment (Gross).	Amount after disposal of complaints.		Amount of subsequent reduction during the year by demolition and on complaints.	Gross amount after deduction of subsequent reduction.	Subsequent enhancement (new buildings, alterations and under assessments) (Gross).	Total Gross Assessment.	Increase or decrease over preceding year's gross assessment.	Rateable Assessment.	Classification of Rateable Assessment.			
		No. of complaints against opening Assessment.	Gross Assessment.							Chargeable with General Tax.	Exempted from General Tax, Section 143 (1) (a) and (b).	For which no General Tax bills issued.	Total Rateable Assessment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1915-16	Rs. 6,10,29,489	5,979	6,04,58,350	9,25,654	5,95,32,696	38,83,495	6,34,16,191	35,74,801	5,70,83,834	5,45,03,932	25,64,306	15,596	5,70,83,834
1916-17	Rs. 6,40,01,716	3,531	6,40,39,989	17,26,534	6,23,13,455	31,09,400	6,54,13,855	19,97,664	5,88,81,972	5,63,07,251	26,60,289	14,432	5,88,81,972

7. There were 2,892 complaints against assessments made from 1st April and 639 complaints against assessments made during the currency of the year, making a total of 3,531 complaints against 5,079 complaints in 1915-16.

8. The following tables give the increases and decreases in property taxes levied as compared with those of 1915-16 :—

General Tax.

1915-16.				1916-17.				Increase- (Difference between columns 4 and 8.)
9½ per cent.	Compounded sum payable by Government under Section 141 (3).	Compounded sum payable by Port Trustees, under Section 145 (3).	Total of columns 1, 2 and 3.	9½ per cent.	Compounded sum payable by Government under Section 141 (3).	Compounded sum payable by Port Trustees under Section 145 (3).	Total of columns 5, 6 and 7.	
1	2	3	4	5	6	7	8	9
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
47,63,932 13 11	2,52,550 9 6	3,65,762 0 0	53,82,245 7 5	49,27,109 8 8	* 2,52,550 9 6	3,70,786 0 0	55,50,446 2 2	1,68,200 10 9

N.B.—* In addition to this sum, the Government paid during the year, Rs. 514-1-6 on account of supplementary claim for the previous years, *etc.*, 1909-1914.

† In addition to this sum, the Port Trust paid during the year, Rs. 2,388-0-0 for the years 1914-15, and 1915-16 on account of the difference in the assessment of their vacant lands.

The amount of General Tax on properties exempted from its payment under Section 143 (1) (a) (b) is Rs. 2,62,703-9-6 against Rs. 2,53,225-2-11 in 1915-1916:.

Water Tax.

1915-16.				1916-17.				Difference.			
On rateable value @ 3 per cent.	Compounded.	On meter measurement	Total of col- umns 1, 2 & 3.	On rateable value @ 3 per cent.	Compounded.	On meter measurement	Total of col- umns 5, 6 & 7.	On rateable value (in- crease).	Compounded (increase).	On meter measurement (increase).	Difference between columns 4 & 8 (increase).
1	2	3	4	5	6	7	8	9	10	11	12
Rs. a. p. 10,81,572 11 10	Rs. a. p. 13,117 7 4	Rs. a. p. 11,50,718 9 5	Rs. a. p. 22,46,408 12 7	Rs. a. p. 11,35,983 4 1	Rs. a. p. 13,490 13 7	Rs. a. p. 12,53,259 7 2	Rs. a. p. 24,02,733 8 10	Rs. a. p. 54,410 8 3	Rs. a. p. 373 6 5	Rs. a. p. 1,02,540 13 9	Rs. a. p. 1,57,924 12 3

Halalkhore Tax.

1915-16.			1916-17.			Difference between column 3 and 6 (increase).
On rateable value at 3 per cent.	On special service.	Total of columns 1 & 2.	On rateable value at 3 per cent.	On special service.	Total of columns 4 & 5.	
1	2	3	4	5	6	7
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
13,77,209 13 11	1,06,027 5 2	14,83,237 3 1	14,42,219 7 1	1,01,815 3 8	15,44,034 10 9	60,797 7 8

9. The total demand on account of property taxes amounted to Rs. 94,97,214-5-9 (including Government and Port Trust) to which is to be added Rs. 7,276-4-7 on account of previous years, Rs. 514-1-6 on account of supplementary claim for previous years in respect of the Government properties and Rs. 2,288-0-0 on account of the difference (for 1914-15 and 1915-16) in the assessment of Port Trust vacant lands, making a total of Rs. 95,07,292-11-10, from which sum Rs. 82,599-3-7 were allowed as one-fifth drawback of the General Tax under Section 158 (2) of the Municipal Act. The total number of claims for one-fifth drawback was 9,167.

10. For these taxes 101 bills for Rs. 7,276-4-7 were issued for previous years and for 1916-17, 70,244 bills for Rs. 87,91,278-8-8 (excluding Government and Port Trust, for which no bills are issued, the amounts being paid direct into the Chief Accountant's Office), were issued, making a total of 70,345 bills for Rs. 87,98,554-13-3.

11. The outstanding balance for property taxes for all years on 31st March 1916 was Rs. 40,137-1-11. During 1916-17, bills for these taxes, amounting to Rs. 87,98,554-13-3, were issued. Government and Port Trust contributions were Rs. 6,26,138-11-0 (*viz.*, Rs. 2,53,064-11-0 and Rs. 3,73,074-0-0, respectively). Thus the total demand amounted to Rs. 94,64,830-10-2.

12. Of this amount Rs. 93,93,883-2-9 were collected, *i.e.*, Rs. 27,668-15-4 for former years, Rs. 514-1-6 on account of supplementary claim for previous years in respect of Government properties, Rs. 2,288-0-0 on account of the difference for 1914-15 and 1915-16 in the assessment of vacant lands of the Port Trust and Rs. 93,63,412-1-11 for 1916-17, leaving uncollected the sum of Rs. 70,947-7-5. Deducting from this amount Rs. 8,454-7-6 on account of bills recalled and cancelled, the balance outstanding on 31st March 1917 was Rs. 62,492-15-11.

13. The outstandings on 31st March 1917 were Rs. 11,289-15-8 on account of former years and Rs. 51,203-0-3 for 1916-17, making a total of Rs. 62,492-15-11.

Tax on Vehicles and Animals.

14. The demand on account of the tax on private vehicles and animals for the four quarters ended 31st December 1916 was Rs. 2,66,689-13-4 against Rs. 2,47,609-2-8 for 1915, to the first sum are to be added Rs. 2,271-14-8 outstanding on 31st March 1916, and amended demand aggregating Rs. 107-5-4 for former years, making a total of Rs. 2,69,069-1-4 for recovery. 20,166 bills were issued during 1916-17. The amount collected was Rs. 2,55,545-4-4, leaving Rs. 3,523-13-0 uncollected of which Rs. 324-9-3 were written off under Standing Committee's Resolutions Nos. 1010, dated 9th May 1916, 2726, dated 28th July 1916, 5692, dated 13th December 1916 and 6,923, dated 7th February 1917, and Rs. 304-10-8 were on account of bills recalled, amended bills being issued, making a total of Rs. 629-3-11, which deducted from Rs. 3,523-13-0 leaves Rs. 2,894-9-1 outstanding at the end of the year.

15. During the year there were taxed 3,437 four-wheeled vehicles, 928 two-wheeled vehicles, 1,007 vehicles not drawn by horses, etc., 1,734 motor cars, 317 motor cycles, 5,677 horses (including those in Commission Stables), 125 ponies, 1,138 bullocks, 2 mules, 1 donkey and 14 buffaloes.

16. The following table shows the total demands, collections and balances on account of property taxes and tax on private vehicles and animals:—

Year.	Opening Outstanding Balance.	Demand assessed for the year and for former years including the amounts paid by Government and Port Trustees for previous years.	Total.	Bills written off under Standing Committee's resolutions and Bills recalled for amendments.	Collections.	Outstanding Balance on 31st March 1917.
1	2	3	4	5	6	7
1916-17.	Rs. a. p. 42,403 0 7	Rs. a. p. 93,91,490 10 11	Rs. a. p. 97,33,899 11 6	Rs. a. p. 9,068 11 5	Rs. a. p. 96,59,478 7 1	Rs. a. p. 65,987 9 0

17. The miscellaneous receipts for Notices, Warrants, Battaki Fees and other small items amounted to Rs. 5,597-8-4 against Rs. 5,131-14-0 in 1915-16. The receipts for Meter Hire were Rs. 32,005-7-8 against Rs. 33,753-0-0 in 1915-16.

18. Certificates of refund of taxes for 1916-17, and for former years were issued as under:—

						Rs.	a.	p.
General Tax	...	...	...	...	...	32,031	8	0
Water Tax...	...	...	...	...	...	10,875	13	10
Halalkhore Tax	...	...	...	...	...	12,096	12	8
Wheel Tax	...	...	...	...	...	93	5	4
Meter Hire	...	...	...	...	...	96	0	11
Notice Fees	...	...	...	...	...	.....		
Total	...				...	55,193	8	9

19. The appeals filed against the valuations for 1915 to the Chief Judge of the Small Causes Court were as under:—

7 against the valuations fixed on complaints in 1915-1916 for 1916-1917, and 6 against the amendment under Section 167 of the Municipal Act during the currency of the year against 20 and 1 respectively in 1915-1916. Out of these 13 appeals, 11 were settled out of Court and withdrawn by the appellants and in two cases the valuations were reduced by the Small Causes Court.

20. The right of collecting the Toll at the Mahim and Sion Causeways was sold in 1916-1917 for Rs. 20,125 (from 1st August 1916 to 31st July 1917) against Rs. 22,050 in 1915-1916. The total income in 1916-1917 under this head was Rs. 20,766-10-8 against Rs. 22,433-5-4 in 1915-1916.

21. The Assistant Assessors and the whole staff worked zealously in the interest of the Municipality.

22. In 1903-1904, the assessment and income of the Department were as under:—

Gross Assessment.	Amount collected.	Outstanding balance.
Rs. 3,44,49,599	Rs. 54,46,544	Rs. 3,18,275

while in 1916-1917 they were as under:—

Gross Assessment.	Amount collected.	Outstanding balance.
Rs. 6,54,13,855	Rs. 96,59,428	Rs. 65,387

23. This gives an increase of 89·88 per cent. in the gross assessment during my tenure of office for 13 years ending 31st March 1917.

24. On 1st April 1917, the gross assessment was Rs. 6,68,16,417.

B. D. BANAJI,
Assessor and Collector.

No. A. R. 861 of 1917-18.

BOMBAY MUNICIPALITY, 12th July 1917.

To

P. W. MONIE, Esq., I.C.S.,

MUNICIPAL COMMISSIONER FOR THE CITY OF BOMBAY.

SIR,

I have the honour to offer the following remarks on the Revenue and Refund Audit work done during the official year 1916-17.

I.—REVENUE AUDIT.

(ASSESSMENT AND COLLECTION DEPARTMENT.)

2. From Appendix A, it will be seen that the total balances of outstanding bills of the 7 Wards examined during the year were 19,892 aggregating to Rs. 24,38,154-1-4. They were duly checked in detail with the Ward Office Bill Books (Form 16) and the Head Office Accounts (Forms 8 and 9).

Quarterly audit of outstanding bills.

3. The Assessment Books were also duly examined with a view to ascertain that no property liable to pay any of the taxes had escaped Assessment.

Assessment Books.

4. Appendix B shows the total number of entries in the Vehicle and Animal Tax Book that were checked with the Quarterly Returns of the Ward Superintendents and with the Owners' Returns under Section 187 of the Act and also compared with the charges made for the preceding quarter.

Audit of Vehicle and Animal Tax Book.

5. The receipts realised from 1st January 1916 to 31st December 1916 from the tax on Public Land Conveyances licensed by the Commissioner of Police under Act VI of 1863 as well as those realised from 1st April 1916 to 31st March 1917 from the Tax on Motor Cars plying for hire were duly audited and the certificates of issue of licenses supplied by the Commissioner of Police checked with the Register maintained in the Chief Accountant's office. The following table gives the number of receipt vouchers dealt with during the year :—

Description of public land conveyances.	Number of certificates or vouchers examined.	Amount of revenue, including fees for licenses, badges, &c.
		Rs. a. p.
Victorias	4,035	1,29,298 7 0
Riding Hackeries	87	1,048 14 0
Labour Carts	7,282	1,47,056 1 4
Single Bullock Cart	1	13 0 0
Hand Carts	23	161 0 0
Motor-cars (taxi-cabs)	221	13,610 0 0
Total	11,649	2,91,187 6 4

Drawback claims.

6. Appendix C shows the number of drawback claims scrutinized by this office during 1916-17.

7. The alterations in the rateable values and in demands made through the increase and decrease forms were duly checked with the Tabulated Ward Reports (Form 13) and the Audit Note Books kept in this office.

Alterations in the rateable values, &c.

8. The total number of complaints against valuations under Section 163 of the Act that were heard by the Revenue Officer was 623, of these 147 Complaints against valuations. were from A Ward, 235 from C Ward and 241 from D Ward, and the total number of decisions on complaints from all the 7 Wards against amendments under Section 167 of the Act that came under scrutiny amounted to 439.

9. The number of irrecoverable bills scrutinized during the year and submitted for Writing off of irrecoverable action under Section 216 of the Act was 43, the amount aggregating to Rs. 402-14-7. It may however be remarked that after the Standing Committee had sanctioned the write-off of these bills, one bill for Rs. 15 in respect of a motor tax had to be re-issued as the amount was subsequently recovered. The write-off was thus reduced to Rs. 387-14-7.

10. The demands, collections and balances at the close of the year, as duly audited in Demands, Collections and the manner contemplated by the Manual, are summarized below:—

	General tax.	Water tax.	Halalkhore tax.	Vehicle and Animal tax.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Total demands (including previous years' outstandings) ...	60,08,490 5 9	25,60,471 7 10	17,12,738 7 9	2,71,466 12 0	1,05,53,167 1 4
Contribution paid by Government for previous years ...	2,802 1 6	.....	.....	.....	2,802 1 6
II.—Deduct bills recalled which were either cancelled or in lieu of which amended bills were issued.	60,11,292 7 3	25,60,471 7 10	17,12,738 7 9	2,71,466 12 0	1,05,55,969 2 10
	5,17,913 0 7	1,47,854 2 2	1,62,359 1 5	2,639 0 0	8,30,765 4 2
III.—Net demand for collection ...	54,93,379 6 8	24,12,617 5 8	15,50,379 6 4	2,68,827 12 0	97,25,203 14 8
IV.—(a) Collection paid into the Municipal Treasury, including departmental adjustments ...	54,52,456 15 1	24,04,135 5 8	15,37,390 14 0	2,65,545 4 4	96,59,428 7 1
(b) Irrecoverable bills written off ...	.....	.....	.....	387 14 7	387 14 7
(c) Balance at the close of the year ...	40,922 7 7	8,482 0 0	13,088 8 4	2,894 9 1	65,387 9 0
Total of IV ...	54,93,379 6 8	24,12,617 5 8	15,50,379 6 4	2,68,827 12 0	97,25,203 14 8

The collections were checked with the totals in the Chief Accountant's Books under each head and the balances by an examination of the bills actually on hand in the seven Ward Offices on 2nd April 1917. They were found to be correct.

OTHER DEPARTMENTS.

11. The Revenue Books maintained in other Departments of the Municipality were checked month by month with the permits, the counterfoils of receipts and licenses and with other papers produced in support of vouchers and the payment of collections into the Municipal Treasury duly verified.

The following statement will show the number of vouchers audited and the amounts represented by them :—

Name of Department.	No. of Vouchers examined.	Amount.
		Rs. a. p.
Executive Engineer's Department (including General, Streets and Buildings and Drainage departments)	5,644	2,80,939 15 0
Hydraulic Engineer's Department	2,190	73,871 5 8
Health Department (including the Ward Offices of the Deputy Health Officers) ...	25,838	1,36,333 0 2
Vaccination Department	2,470	6,373 12 0
Markets and Slaughter Houses	1,21,308	6,22,859 2 6
License Department	10,272	1,11,050 12 0
Victoria Gardens	35,178	9,036 15 6
Total... ..	2,02,900	12,40,464 14 10

12. From October 1915 the work of issuing licenses to traders in milk was transferred from the Superintendent of Licenses to the Executive Health Officer and the number of such licenses issued during the year aggregated 2,470 bringing in a revenue of Rs 6,373-12-0. Each license before its issue was scrutinized by this office, special attention being paid to the correctness of the fees leviable.

13. The number of permits issued under Section 390 of the Municipal Act in respect of newly established factories was 83 yielding a revenue of Rs. 2,075.

14. As the proposal put forward by the Bombay Telephone Company to change the present mode of charging ground rent to them by allowing them to pay rent at a fixed rate of percentage calculated on the revenue receivable by them from exchange and private lines within the Bombay Municipal area is still under consideration, the preparation of the bills for the calendar years 1915 and 1916 has been held in abeyance. The two half-yearly bills against the Tramway Company were issued as usual after they were checked by this office and were paid by them.

15. The total amount of fines recovered during the year under report in respect of offences committed against the several provisions of the Municipal Act, as per statements sent every month by the Chief Presidency Magistrate, was Rs. 43,415-6-9, which was duly paid into the Municipal Treasury. The cases in which the fines remained outstanding were brought to the notice of the Heads of Departments concerned.

16. An additional duty of checking the statements of rents recovered from Municipal servants occupying Municipal quarters has devolved on this office since the year 1915-16. Some of the Departments have, however, not yet commenced sending the required statements and this fact has been brought to your notice.

17. The errors, irregularities or omissions discovered in the course of audit were brought to the notice of the Departments concerned and their explanations obtained.

II.—REFUND AUDIT.

(ASSESSMENT DEPARTMENT.)

18. The subjoined table shows the number and amount of claims to refund on account of vacancies and over-collections that were scrutinized by this office in the year under report :—

Ward.	No. of claims.	Amounts of Refunds sanctioned.					
		General Tax.	Water Tax.	Halalkhore Tax.	Wheel Tax.	Meter Hire.	Total.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A ...	313	7,033 1 1	1,215 9 0	3,242 14 3	49 5 4	33 1 9	11,574 0 3
A (T. Section).	190	3,665 3 7	1,048 0 0	1,044 6 10	.....	14 15 2	5,772 9 7
B ..	153	3,027 8 1	737 8 8	1,151 7 1	2 0 0	.....	4,918 7 5
C ...	305	3,173 12 1	646 0 11	1,325 9 11	.....	16 0 0	5,161 6 11
D ...	137	3,329 15 6	1,226 5 11	1,461 13 0	16 0 0	.....	6,034 2 5
E ...	172	1,974 12 0	200 7 2	705 1 8	.....	4 0 0	2,884 5 3
F ...	94	3,017 1 10	4,084 1 8	1,051 15 3	15 0 0	28 0 0	8,196 2 9
G ...	135	6,810 1 10	1,717 11 8	2,113 8 8	11 0 0	.....	10,652 6 2
Total ...	1,499	32,031 8 0	10,875 13 10	12,096 12 8	93 5 4	96 0 11	55,193 8 9

Town Duty Refunds.

19. The rates of duty leviable on various dutiable articles remained the same as in the preceding year.

20. Appendix D will show in detail the gross collections for the year from each dutiable article, the refunds admitted and the net revenue derived as compared with the figures of the preceding year.

The net result of the year's working as compared with that of the previous year is as under :—

Year.			Gross Revenue.	Total Refunds.	Net Revenue.
			Rs. a. p.	Rs. a. p.	Rs. a. p.
1915-16	...	...	36,60,101 2 10	16,93,443 3 0	19,66,657 15 10
1916-17	...	...	38,85,305 10 9	20,44,046 7 0	18,41,259 3 9

The falling-off of Rs. 1,25,398-12-1 is the net effect of increases in some heads of the articles and decreases under others as shown below :—

Name of Article.					Increases.	Decreases.
					Rs.	Rs.
Timber	...	...	...	...	+ 1,39,968	.....
Beer	...	...	..	...	+ 10,389	.....
Wines and Spirits	...	...	...	...	+ 27,913	.....
Grain and Flour	...	...	...	...	.....	— 99,870
Sugar	...	...	...	...	.....	— 1,86,266
Ghee	...	...	...	...	.....	— 14,746
Firewood	...	...	...	...	.....	— 2,787
					+ 1,78,270	— 3,03,669
					Net Decrease of Rs. 1,25,399	

Notwithstanding this decrease on the last year's revenue, the net realizations for the year compare very favourably with those of the following years:—

Year.						Rs	a.	p.
1912-13	...	...	...	...	...	17,31,893	6	4
1913-14	...	...	...	...	...	17,16,893	12	6
1914-15	...	...	...	...	...	10,45,689	4	11

21. From Appendix E it will be seen that there were extraordinarily heavy exports of sugar, grain, flour and ghee for military purposes and the refunds for the year exceeded those for the previous year by Rs. 3,50,603.

22. The scheme of marking sugar bags with Municipal stamps was in operation throughout the year.

23. The number of refund claims dealt with was 58,212 against 59,941 in the previous year and the Inward and Outward references disposed of numbered 18,018 and 11,537 respectively as against 15,064 and 9,301 of the previous year.

I have the honour to be,

Sir,

Your most obedient servant,

HARISHCHANDRA R.,

Acting Revenue and Refund Audit Officer.

Appendix A.

STATEMENT of Balances examined quarterly during 1916-1917.

Number of Ward Clerks.	WARD.	Balances examined on 1st April 1916.		Balances examined on 1st July 1916.		Balances examined on 2nd October 1916.		Balances examined on 3rd January 1917.		Total balances examined during the year.	
		Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.
16	A—Fort and Colaba	239	17,888 15 4	2,471	4,65,612 8 9	459	56,216 8 1	2,860	5,07,538 4 10	6,029	10,46,726 5 0
11	B—Mandvi	46	3,517 0 11	1,569	2,38,320 4 5	63	10,111 1 5	1,810	2,56,447 3 5	3,488	5,08,895 10 2
14	C—Bhuleshwar	35	3,320 10 2	909	1,27,406 10 2	72	17,659 14 2	1,047	1,20,743 14 7	2,063	2,69,111 1 1
11	D—Girgaum	33	8,680 5 6	1,095	1,04,130 14 5	160	26,926 13 3	1,383	1,29,845 7 4	2,721	2,69,433 8 6
14	E—Byculla	84	7,552 1 5	976	86,320 8 5	139	14,160 3 3	1,021	87,400 0 0	2,250	1,95,432 13 1
7	F—Parel	16	725 10 10	487	22,235 12 6	13	737 2 10	476	20,919 1 1	942	44,727 11 3
8	G—Makim	61	1,404 4 5	972	49,236 8 11	80	9,930 0 8	1,326	43,646 2 8	2,429	1,04,327 0 3
81	Total	554	42,409 0 7	8,429	10,93,363 3 7	986	1,35,841 11 3	9,923	11,66,540 1 11	19,392	24,38,154 1 4

HARISHCHANDRA R.,
Acting Revenue and Refund Audit Officer.

Appendix B.

STATEMENT of entries in the Vehicle and Animal Tax Book (kept under Section 186 of the Municipal Act) checked during 1916-17.

Ward.			1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
A	...	...	1,153	1,287	1,402	1,573	5,415
B	...	...	581	624	663	719	2,587
C	...	...	815	887	965	1,050	3,717
D	...	...	1,539	1,718	1,863	2,093	7,208
E	...	..	726	801	865	987	3,379
F	...	...	266	294	311	335	1,206
G	...	...	246	254	269	294	1,063
Total ...			5,326	5,860	6,388	7,051	24,575

HARISHCHANDRA R.,

Acting Revenue and Refund Audit Officer.

Appendix C.

STATEMENT of claims for one-fifth Drawback scrutinized during 1916-17.

Ward.			1st Half of 1916-17.		2nd Half of 1916-17.		Total.	
			No. of claims received.	No. of claims admitted.	No. of claims received.	No. of claims admitted.	No. of claims received.	No. of claims admitted.
A	...	...	307	149	235	122	542	271
B	...	...	549	291	536	275	1,085	566
C	...	...	994	532	946	467	1,940	999
D	...	...	501	234	520	237	1,021	471
E	...	...	1,136	704	1,000	640	2,136	1,344
F	...	...	337	212	313	197	650	409
G	...	...	554	319	557	295	1,111	614
Properties owned by the City Improvement Trust.			342	264	340	256	682	520
Total ...			4,720	2,705	4,447	2,489	9,167	5,194

HARISHCHANDRA R.,

Acting Revenue and Refund Audit Officer.

Appendix E.

Statement contrasting the Imports, Exports and Balance of the several articles subject to Town Duty during the year 1916-17 with those for 1915-16.

ARTICLE.	IMPORTS.				EXPORTS AND SUPPLY TO GOVERNMENT BY CONTRACTORS					BALANCE (LOCAL CONSUMPTION AND STOCK).				
	1915-16.	1916-17.	Increase in 1916-17.	Decrease in 1916-17.	1915-16.			1916-17.		1915-16.	1916-17.	Increase in 1916-17.	Decrease in 1916-17.	
					Exports.	Supply to Government.	Total.	Exports.	Supply to Government.					Total.
per Candy .. Candies	29,56,117	28,97,385	.....	58,732	12,57,172	.....	13,97,982	13,97,982	1,40,810	.....	15,01,045	11,82,164	.....	3,18,881
45 per Candy .. Candies	4,503	21,743	17,240	.....	1,52,927	.....	2,59,672	2,59,672	1,06,745	.....	.....	.....	.....	.....
per Owt. .. Cwts.	30,97,663	31,10,236	12,873	.....	19,50,236	28,866	22,37,923	1,26,876	3,85,106	.....	1,118,567	7,46,034	.....	3,72,533
at annas 4 per Gallons.	11,04,658	12,16,774	1,12,716	.....	1,19,973	.....	1,14,404	6,971	1,062	.....	9,84,085	10,95,739	1,11,654	.....
at annas 6 per Imperial Gallon.	9,53,379	12,02,449	3,49,070	.....	5,31,316	.....	5,45,984	1,940	16,608	.....	4,29,063	7,54,935	3,32,462	.....
annas 10 per Bombay Maund.	6,27,940	7,26,687	98,747	.....	1,81,455	.....	2,98,183	5,614	1,22,942	.....	4,46,485	4,22,800	.....	23,685
at 2½ per cent. on Market Value.	94,00,366	1,49,18,147	55,17,781	.....	11,77,520	.....	10,96,585	.....	..	80,935	82,22,846	1,98,21,562	55,98,716	.....
at annas 2 per Candy .. Candies.	5,45,437	5,23,138	.....	22,299	.....	.....	.....	.....	.....	.....	5,45,437	5,23,138	.....	22,299

HARISHCHANDRA R.,
Acting Revenue and Refund Audit Officer.

PUBLIC WORKS.

No. 4131-E.G. of 1917-18.

EXECUTIVE ENGINEER'S OFFICE,
BOMBAY, 22nd June 1917.

To

THE MUNICIPAL COMMISSIONER

FOR THE CITY OF BOMBAY.

SIR,

I have the honour to forward the Administration Report of the Department under my control for the year 1916-17.

2. The report is divided under the following heads :—

	Paragraph Nos.
Municipal Building Construction	3-42
Roads	43-83
Footpaths	84-87
Overbridges	88-94
Drainage	95-140
Meehanical Branch	141-204
Open Spaces	205-207
Tramways	208-210
Public Lighting	211-215
Private Building Construction	216-227
Disposal of Town Sweepings	228-234
Plague Measures	235-237
Miscellaneous Works	238-257
Schemes	258-260
General	261-264

MUNICIPAL BUILDING CONSTRUCTION.

Bathing Places.

3. A bathing place was sanctioned to be constructed at the **Junction of Khetwadi Back Road and Khetwadi 2nd Lane**. The work was entrusted to the Annual Repairs Contractors.

Markets.

4. Plans and detailed estimates for the proposed **extension to the Crawford Markets** have been submitted to and approved by the Corporation, but further progress cannot be made until funds are available.

5. A **temporary railing and a scale shed** were erected on the **south of the Crawford Markets** at a cost of Rs. 1,818-14-7.

6. The question of a site for the proposed **market at Chowpatty** is still under consideration.

7. A sum of Rs. 3,906 was provided in the budget for constructing a **two-seated water-closet and a six-seated urinal at the Arthur Crawford Markets**. The tender of Messrs. Luxmilal Sakerlal Mehta and Juthabhai Amersey Shah amounting to Rs. 4,318-6-2 was accepted under the Standing Committee's Resolution No. 3568 of 6th September 1916. The work is practically completed.

Cemeteries.

8. A sum of Rs. 5,000 was provided in the budget for filling in a further portion of the **Haines Road Cemetery**. The tender of Mr. Abdul Karim Haji Karimbux amounting to Rs. 3,859-3-8 was accepted under the Standing Committee's Resolution No. 3209 of 16th August 1916. The work is nearing completion.

9. A sum of Rs. 51,549 was provided in the Loan Works Budget for filling in the **Roman Catholic Cemetery at Haines Road**. The work was held up pending the completion of negotiations for the purchase of the land.

10. A reply from the Port Trust regarding the question of **protecting the foreshore at Mahim** is awaited.

Stables.

11. Detailed plans and estimates for proposed **offices and stables for D Ward bullocks at Annesley Road** are ready and have been approved. The work will be commenced when funds are available.

12. The land on which the proposed **stables for bullocks at Mahim** are to be erected has not yet been handed over by Government to the Municipality.

Chawls.

13. The construction of **chawls for the biggaries of the Health Department at Cochin Street** has been abandoned, as it is now proposed to provide for the necessary accommodation in the Palton Road Scheme.

14. Plans and estimates for constructing two out of five of the proposed **chawls to be erected at Palton Road** were forwarded for approval.

15. Tenders were invited for filling in the low lying ground prior to constructing **chawls for the Health Department biggaries of F Ward**. The lowest tender of Mr. Khimji Kheraj amounting to Rs. 14,033-10-9 was accepted and the work is well in hand.

16. The land required for this purpose was purchased at a cost of Rs. 64,151-11-2 which was met from the grant of Rs. 75,820 provided in the Loan Works Budget.

17. A sum of Rs. 70,000 was provided in the Loan Works Budget as an instalment towards the estimated expenditure for the proposed **Halalkhores and biggaries chawls at Valpakhadi**. Tenders were invited for the bigger of the two chawls including the compound wall.

18. The tender of Messrs. Ramji Keshavji & Co. amounting to Rs. 1,04,806-2-11 was accepted by the Standing Committee under its Resolution No. 2194 of 5th July 1916. The amount was sanctioned to be met partly from the above-mentioned sum of Rs. 70,000 and partly from the provision in the ensuing year's budget. The work was in progress at the close of the year.

19. Sums amounting to Rs. 7,750 from surplus cash balance and Rs. 1,150 from the Municipal Fire and Accident Insurance Fund were sanctioned for the work of constructing a **semi-permanent chawl for the Carcass Establishment at Tardeo Flats**. As the lowest tender of Mr. Sambhaji Bhagooji amounted to Rs. 9,986 an additional grant of Rs. 1,000 was made from surplus cash balance under Corporation Resolution No. 8116 of 19th March 1917. Arrangements have been made to commence the work.

20. A sum of Rs. 10,000 from surplus loan balances and another of Rs. 47,404 from the loan works budget estimates for the year 1917-18 was sanctioned for the work of constructing **semi-permanent chawls for the Halalkhores of the Health Department at Tardeo Flats**. The lowest tender received amounted to Rs. 61,471-5-0; consequently an additional grant of Rs. 4,067-5-0 was obtained from the surplus loan balances, *vide* Corporation Resolution No. 7821 of 12th March 1917. The work was in progress at the close of the year.

Offices.

21. The construction of **Ward Offices and quarters for the several Municipal Departments** has still been kept in abeyance pending suitable sites being secured and funds provided.

Staff Quarters.

22. A portion of the necessary land having been acquired, plans and estimates for the erection of **quarters for engine drivers, firemen, oilmen, &c., at Love Grove Pumping Station** were under preparation at the close of the year.

23. The work of constructing **semi-permanent quarters for Halalkhores on the Foras Tank site** was completed.

Slaughter Houses.

24. The work of constructing an iron shed for sheep at **Bandra Slaughter Houses** was completed at a cost of Rs. 7,814-11-1.

9. Hospitals.

25. Alterations and additions to the existing permanent **small-pox wards at the Arthur Road Hospital** were carried out at a cost of Rs. 3,704-13-3.

26. Provisional plans and estimates for a **European Infectious Diseases Hospital** on the vacant land have been prepared.

Primary Schools.

27. Plans and estimates for the construction of **schools at Baboola Tank and Dongri Street** have been prepared. For financial reasons these matters have been kept in abeyance. Plans for proposed **schools at Mustan Tank and DeLisle Road** are under consideration.

Garden Structures.

28. Regarding the sum of Rs. 10,000 provided in the budget for improving the zoological portion of the **Victoria Gardens** two estimates were prepared, one amounting to Rs. 3,727 for carrying out **alterations to the Leopard cage** and the other amounting to Rs. 8,070 for constructing **enclosures for deer and antelopes**. Tenders were invited but as no offers were received, the work was recommended to be postponed.

29. A sum of Rs. 6,086 was sanctioned from Surplus Cash Balance under Corporation Resolution No. 1722 of 15th June 1916 for the erection of a **wrought iron fence and providing expanded metal to the C. I. railing at the Victoria Gardens**. The lowest tender for the work was that of Mr. Karman Jagmal for Rs. 5,466-5-9 which was accepted under Standing Committee Resolution No. 5812 of 20th December 1916. The contractor, however, having failed to commence the work at the close of the year, other arrangements are being made to carry out the work.

30. Two sums of Rs. 4,399 and Rs. 1,000 were available from the grant for **repairs to Victoria and Albert Museum** for the years 1914-15 and 1915-16. The lowest tender of Messrs. Ramji Keshavji & Co. amounting to Rs. 4,998-2-1 was accepted under the Standing Committee's Resolution No. 1400 of 31st May 1916. The work was practically completed at the close of the year.

Miscellaneous.

31. The work of providing a **shed for stone crushers at Sewree** was completed at a cost of Rs. 6,742-15-0.

32. Rs. 287 and Rs. 788 for constructing **fire-proof sheds for storing petrol in the compound of the Municipal Office Buildings and at the Head-quarters of the Fire Brigade at Sankli Tank**, respectively, and Rs. 6,844 for constructing (a) a **fire-proof shed for storing petrol**, (b) a **motor shed for 3 All day Motor Wagons** and (c) **Night-watchman's chowky at the Garden Bridge** were provided in the budget. These works were included in one contract and tenders were invited, but as none was received, a revised proposal was submitted for consideration at the close of the year.

33. The work of **renewing a portion of the flooring of the 3rd floor, Municipal Office Building**, for which a sum of Rs. 2,300 was provided in the budget was entrusted to Messrs. Marsland Price & Co., Ltd., *vide* Standing Committee's Resolution No. 4406 of 11th October 1916. The work was in progress at the close of the year. The tendered amount was Rs. 2,017-14-8.

34. A sum of Rs. 3,800 was provided in the budget for constructing a **wall along the roadside of the Haines Road Fire Brigade Station compound**. As a portion of the proposed wall was within the set-back line, it was decided to only construct the portion not

affected by the set-back line at a cost of about Rs. 2,275 and to use the balance on shifting the fence of the Baboola Tank Fire Brigade Station and on other improvements to Haines Road Station (*vide* Standing Committee's Resolution No. 5529 of 7th December 1916). These works were entrusted to the Annual Repairs Contractors.

35. Out of the grant of Rs. 15,000 provided in the budget for constructing latrines and urinals the work of constructing latrines and urinals at the junction of Trimbak Parashram Street and 2nd Pathan Street was undertaken and entrusted to Mr. Kanji Velji Mistry at a probable cost of Rs. 7,621, *vide* Standing Committee's Resolution No. 822 of 3rd May 1916. The work was nearing completion at the close of the year.

36. An estimate amounting to Rs. 5,750 was prepared for erecting a screen round the skinning ground at Chimbur. Tenders could not be invited as funds were not available at the close of the year.

37. Plans and estimates amounting to Rs. 10,340 were prepared for constructing a shed and bamboo fencing at the Kutchra site at Colaba. The estimate was under revision at the close of the year.

38. The Corporation sanctioned the transfer of a sum of Rs. 21,115 from several Budget grants of the Health Department for the work of removing the Health Camps, sterilizer, &c., from the Northbrook Garden and re-erecting the same on the morgue site. The lowest tender of Mr. L. S. Mehta amounting to Rs. 20,043-15-3 was accepted under Standing Committee's Resolution No. 2548 of 19th July 1916. The work was practically finished at the close of the year.

39. The work of constructing Superintendent's quarters at the Acworth Leper Asylum, Matunga, was completed at a cost of Rs. 12,244-12-9.

40. Various funds which were available from the Market and Health Department grants for repairs and painting of buildings were utilized in painting certain Markets and Health Department Stables. The lowest tender of Mr. Anna Balwant was accepted under Standing Committee's Resolution No. 626 of 26th April 1916. The work was completed at the close of the year.

41. The building and repair works carried out through the agency of the Petty Works Contractors amounted to Rs. 76,300.

42. In addition to the works referred to above, plans and estimates in the following cases were prepared by the Architectural Branch. Works costing less than Rs. 3,000 have not been included.

Markets.

	Rs.
1. Reconstruction of Pork Market at Lohar Street	7,400
2. Construction of Beef Market at Kamatipura	8,310
3. Market at Matunga	14,472
4. Market at Masjid Bunder	7,000
5. Constructing a new road leading to the Arthur Road Pig Slaughter House	4,500
6. Construction of a compound wall and filling in the land at Bandra Slaughter House	50,000
7. Improving existing open drain at Bandra Slaughter House ...	39,500

Underground Conveniences.

8. Sandhurst Road	30,470
9. Bhatia Baug (Victoria Square)	56,300
10. Hornby Road (opposite the A. C. Markets)	45,000
11. Jacob's Circle	21,830

Latrines and Urinals.

12. Arthur Bunder, Colaba	16,800
13. Reay Road	16,000
14. Cavel Street	10,200
15. Town Hall	9,900

Fountains.

16. Near Carnac Bridge (donation offered by Dr. Dadachanji) ...	12,000
17. Reay Road	10,000
18. Girgaum Back Road	10,258
19. Junction of Sandhurst Road and Dongri Street	3,500
20. Town Hall	12,000

Miscellaneous.

	Rs.
21. Police Chowky at the Elphinstone Circle Gardens for the improvement of the locality	5,628
22. Kutchra Siding at Argyle Road	2,15,700
23. Shed for 3 Allday wagons, watchmen's chowky and a shed for storing petrol	7,180
24. New Ward at the Acworth Leper Asylum	32,000

Hospitals.

25. Proposed Infectious Diseases Hospital for Europeans and better class Indians with Offices, quarters for nurses, servants, &c., in the Arthur Road Hospital	6,42,263
26. Additions and alterations to the Small-pox Ward at the Arthur Road Hospital	4,150
27. Filling in the low-lying ground opposite the Arthur Road Hospital	66,000
28. Filling in the ground on the north side of the Arthur Road Hospital	40,200
29. Additions and alterations in Nurses' quarters, New Cook Room, water-closet and washing place at the Maratha Hospital	6,844
30. Construction of stables, chawls, District Registrar's Offices, &c., at Colaba	3,13,177
31. Maternity Homes at Bellasis Road and Fergusson Road	73,500

Quarters and Chawls.

32. Chawls for beggaries at Arthur Road	83,200
33. Chawls for Halalkhores at Sukhlaji Street	57,800

Cemeteries.

34. Haines Road Hindoo Burial Ground—Further filling in of low-lying ground	5,000
35. Haines Road Roman Catholic Cemetery—Constructing boundary wall, concrete drain and filling in low-lying ground	90,766

Victoria Gardens.

36. Providing W. I. grill to windows in the Victoria and Albert Museum	4,400
37. Additions and alterations to existing Wolf's Cage	8,150
38. Additions and alterations to existing Hyæna Cage	7,000
39. Quarters for Malees	39,335
40. Proposed new Deer Paddock enclosure	4,300

Band Stand.

41. Proposed new Band Stand at Cooperage with enclosing railing	25,832
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ROADS.**Construction of New Roads.**

43. The extension of Lady Hardinge Road eastwards upto the G. I. P. Railway level crossing at Matunga was completed during the year at a total cost of Rs. 68,822-0-9 exclusive of the cost of planting trees which work was in progress at the close of the year.

44. The road could not however be opened for traffic during the year in the absence of a level crossing over the B. B. & C. I. Railway lines connecting the old and the new road. Negotiations as to this were going on with the Railway Company.

Roads taken over and declared public.

45. The following roads were taken over and declared public :—

<i>Name of the road.</i>	<i>From whom taken over.</i>
1. Elphinstone Bridge (widened portion).	G. I. P. Railway Company.
2. 2nd Pophalwadi Lane.	Private Street declared public under Section 306 of the Municipal Act.
3. Assembly Lane.	Do.
4. Tejpal Road (Portion).	City Improvement Trust.
5. Road running from Sandhurst Road to Charni Road including a blind footway 20 ft. wide.	Do.
6. Post Office Lane (running between Khetwadi Main Road and Girgaum Back Road).	Private Street declared public under Section 306 of the Municipal Act.
7. Khetwadi Main Road and Powwala Street.	Do.
8. Parel Road Cross Land.	Do.

Widening of important Roads.

46. The following roads or portions thereof were specially taken up for widening :—

	Square feet.
Bomanji Petit Road...	24,000
Mahim Bazar Road ...	2,70,000

47. All the vacant land lying within the 60 feet set-back lines at **Nesbit Road** has been acquired, but owing to want of funds the work of widening the road has been delayed.

48. Proceedings are pending before the Collector in connection with the acquisition of land required for the **extension of Nesbit Road through Mingalwadi** and for the primary school at Mazagon.

49. The widening of **Mahim Bazar Road** (now called **Cadell Road**) **Mahim Bazar Cross Road** is well advanced.

50. The vacant land within the set-back lines of **Worli Road from the Post Office to the Storm Water Channel** has been acquired, and the work will be taken in hand as soon as several of the obstructive buildings have been secured.

Widening of Streets.

51. The expenditure on general street improvements was as follows :—

	Rs.	a.	p.
Grant made from <i>Capital</i> ...	2,50,000	0	0
Expenditure ...	96,173	3	11
Balance available for 1917-18 ...	1,53,826	12	1
	Rs.	a.	p.
Grant made from <i>Revenue</i> ...	1,00,000	0	0
Renewed Grant ...	15,841	4	5
Additional grant sanctioned under Corporation Resolution No. 4304 of 9th October 1916 ...	47,808	15	7
Total Grant from Revenue ...	1,63,650	4	0
Expenditure ...	1,22,699	8	2
Balance renewed for 1917-18 ...	40,950	11	10

52. Thus against a total grant of Rs. 4,13,650-4-0 the total expenditure amounted to Rs. 2,18,872-12-1.

53. The following is a comparative statement of set-backs enforced, &c., during the last five years:—

Year.	Set-backs enforced.	Set-backs added.	Set-backs paid for.	Area of ground added to streets (in square yards).
1912-1913	124	143	85	25,829·47
1913-1914	107	92	65	9,947·53
1914-1915	65	51	104	4,652·79
1915-1916	46	56	102	8,166·56
1916-1917	84	43	55	4,365·35

54. The details of the area of 4,365·35 square yards shown above, together with its value, are as follows:—

Ward.	Area in square yards.	Value.
		Rs. a. p.
A	51·62	2,837 14 5
B	354·00	94,006 4 0
C	325·00	60,299 0 0
D	65·00	1,638 4 0
E	6·00	126 0 0
F	517·73	3,753 2 0
G	3,046·00	17,584 0 0
Total ...	4,365·35	1,80,244 8 5

55. The street widening consequent on the acquisition of set-backs was as follows:—

	Area in sq. Yds.
Gunbow Street	80
Colaba Road	39
Musjid Bunder Road	85
Abdul Rehman Street	149
De Souza Street	13
Jackeria Masjid Street	9
Narayen Dhuru Street	17
Sarang Street	14
Bhuleshwar Road	67
Dadyshet Agiary Street	26
Cavel Street	226
Dhanji Street	17
Kalbadevi Road	32
Bomanji Petit Road	43
Girgaum Road (Near Bhatwadi Road)	22
Sadashiv Street	148
Tardeo Road (Near Victoria Memorial School for the Blind)	237
Sleater Road	600
Mughbhat Cross Lane... ..	17
Tardeo Road (near Wadia Street)	396
Dockyard Road	480
Mount Road	6,333
Undria Street Cross Lane	128
Kamatipura 15th Street	27
Love Grove Pumping Station Road	461
” ”	1,755
Lady Jamshedji Road (Junction with Mahim Bazar Road)... ..	445
Lady Jamshedji Road	97
Mori Road	4
Portuguese Church Street	50
Worli Road	35
Worli Sluice Road	3,058

Improvement of Private Streets.

56. Action under Section 305 of the Municipal Act was taken for the improvement of the following streets :—

Dady Santuk and Sorabji Santuk Lanes.
 Old Hanuman 1st and 2nd Cross Lanes.
 Passages in Zaoba's Oart (fresh action).
 2nd and 3rd Pasta Lanes.
 Mughbhat Cross Lane.
 Hanuman Prasad Lane (off Lamington Road).
 Private Street off Charni Road.
 Chinchpokli Cross Lane.
 Fergusson Road Cross Lane.
 Mahim Bazar Cross Lane.

Road repairs.

57. The following is a statement of expenditure incurred on the repairs and maintenance of roads:—

	Rs.	a.	p.
1. Full metalling (4,581,869 sq. ft.)	2,62,157	0	8
2. Full patching (1,978,423 sq. ft.)	55,516	12	1
3. Patching (small) including value of the balance of materials on site and miscellaneous works (15,133,372 sq. ft.)	1,83,067	13	1
4. Scraping and brushing	67,724	0	0
5. Repairs and maintenance of footpaths, bridges, culverts and road-side retaining walls	11,874	0	0
6. Maintenance and fencing of road-side trees	11,328	0	0
7. General repairs to tools, plant, &c.	46,104	8	8
Total ...	Rs. 6,37,772	2	6

58. Much difficulty was experienced in conducting road operations during the first eight months of the year on account of scarcity of labour and cartage and the deficient and unsatisfactory supply of material. Conditions were more favourable towards the close of the year and good progress was then made with the strengthening and cambering of many roads and streets. Special attention was devoted to a number of the streets in the more congested localities resulting in marked improvement and comfort alike for pedestrian and vehicular traffic.

59. The demand for labour and the high prices paid therefor by contractors and others renders the securing of adequate and efficient workmen for Municipal work increasingly difficult and makes the question of further augmenting the rates of pay a matter deserving early consideration.

60. The extended use of motor transport will prove economical and will do much to facilitate the timely supply of material and to remove the present irregular and dilatory supply by bullock traction.

61. War conditions have unfortunately delayed the supply of motor wagons, motor sprinklers, motor sweepers and other plant for which funds had been provided. The two Laffly Motor Sweepers and sprayers which were ready for delivery were at the last moment commandeered by the French Government.

62. The question of establishing adequate depots for the storage and supply of plant and material in the several districts of the City so as to expedite operations and minimize inconvenience and obstruction is receiving earnest consideration.

63. The rate for full metalling worked out to 10·98 pies per square foot or Rs. 5-11-0 per 100 square feet as against the rates of 10·87 per square foot and Rs. 5-10-7 respectively last year and the standard estimated rate of Rs. 5-12-0.

Road Foundations.

64. From the budget provision of Rs. 50,000 the portions of the following roads were provided with hand-set rubble bottoming:—

	Area in sq. ft.
Palton Road (a length of 400 feet northwards from Hornby Road)	24,000
Tardeo Road (near Wadia Street)	21,340
Lamington Road (eastern portion between Grant Road and Foras Road)	12,500
Clare Road (from Sankli Street to Bellasis Road, east side)	15,300
Foras Road (from the Railway Goods Yard to Lamington Road)	2,550
Love Grove Road	8,900
Worli Sluice Road (from the junction of Old Purbhadevi Road westward—south side)	24,600

65. From the same provision a portion of Frere Road from Carnac Bridge Northwards upto Ahmedabad Street was proposed for cement concrete bottoming at an estimated cost of Rs. 18,000. The work was in progress at the close of the year.

Road Excavation.

66. The following lengths of roads were opened by various agencies :—

	R. ft.
Water Department	23,175
Drainage Department... ..	27,098
Bombay Electric Supply & Tramways Co., Ltd.	60,522
Callender's Cable and Construction Co. (for the Tata Hydro-Electric Supply Co.)	3,958
Bombay Telephone Co.	6,746
Bombay Gas Company	15,621
Total R. ft. ...	137,120

67. This represents nearly 26 miles out of a total of 169 miles of roads in the City.

68. The cost of filling in the excavations, including private street works, amounted to Rs. 2,17,781-10-8.

Road Watering.

69. The total expenditure against the budget grant of Rs. 71,000 amounted to Rs. 86,650-3-2. An additional grant was applied for.

70. The excess was due principally to the rise in the price of materials required for the repairs of the road watering appliances and partly to the more frequent watering of the main roads in the City.

71. An increased grant has been provided in the next year's budget.

72. The total number of hydrants fixed for road watering during the year was 117, all of which were underground hydrants.

Road Materials, Appliances, &c.

73. The total quantity of road materials purchased during the year and their cost were as follows :—

Description of Materials.	Quantity in C. ft.	Cost.		
		Rs.	a.	p.
From Municipal Contractors—				
Metal	1,662,605	1,45,218	2	5
Sand	432,129	38,081	5	11
Sandstone	242,778	19,270	8	1
Rubble stone	311,188	25,624	6	3
Red hill earth	17,570	1,983	14	3
From the City Improvement Trust—				
Metal 1½"	3,724	214	2	1
Metal 1"	33,171	2,985	6	3
Chips ½"	2,223	277	14	0
Rubble stone	4,024	196	2	8
Stone dust	7,811	97	10	2
Total ...		2,33,949	8	1

74. One 10 N. H. P. portable engine was purchased from Messrs. Marshall, Sons & Co., for Rs. 6,700 for driving the stone crusher at Sewri.

75. The comparative rates per 100 c. ft. of materials for the years 1915-16 and 1916-17 were as follows:—

Description of Materials.	Rate paid in 1915-16.	Rate paid in 1916-17.	Remarks.
	Rs. a. p.	Rs. a. p.	
Municipal Contractors—			
Metal	11 2 0	8 11 9	
Sand	9 3 0	8 13 0	
Sandstone	7 15 0	7 15 0	
Rubble stone	10 0 0	8 3 9	Less 5 per cent.
Red hill earth	12 8 0	12 0 0	Less 6 per cent.
City, Improvement Trust—			
Metal, 1½"	5 8 0	5 12 0	
„ 1"	8 0 0	9 0 0	
„ ½"	11 8 0	12 8 0	
Rubble stone	4 8 0	4 14 0	
Stone dust... ..	1 4 0	1 4 0	

Dust Preventive Measures.

76. About 25 roads with an aggregate area of 3,73,311 square feet were painted with tar in 1 coat. About 27 roads inclusive of cabstands with an area of 1,720,874 square feet were painted in 2 coats, the first coat being mixed with ½" chips and the second with metal grit.

77. The following 7 roads or portions thereof with an aggregate area of 204,905 square feet were grouted with tar:—

Cawasji Patel Street.
Barber Lane.
Queen's Road Bandstand.
Wodehouse Road (with footpaths).
Mayo Road.
Cooperage Road.
Chaupati Sea Face.

78. The tar grouting is done in 3 layers of metal, 2½", 1½" and ½".

79. The cost of the tarring operations amounted to Rs. 74,229-4-3 inclusive of Rs. 48,368 being the price of 120,920 gallons of tar used.

80. The experiment with Jamba teak-wood block pavement tried on a portion of Frere Road having proved successful, it is intended to treat similarly a further portion of Frere Road, and a provision of Rs. 50,000 has been made in the next year's budget for this purpose. Quotations for the required quantity of blocks have been invited from the Conservator of Forests, Southern Circle.

Tree-planting.

81. New trees were planted on Queen's Road, Queen's Road Bandstand, Mint Road, Cuffe Parade, Frere Road, Grant Road, Arthur Road, Forjett Street, Gowalia Tank Road, Harvey Road, Lamington Road, Arthur Road, Dadar Road, Worli Road, Worli Channel.

82. The number of trees planted was 334 and the certified expenditure thereon during the year amounted to Rs. 10,708-12-2 including the cost of 351 tree guards.

83. The condition of the roadside trees continues to improve and attention is being given to the rearing of suitable varieties in the nursery.

FOOTPATHS.

Footpaths Paved.

84. From the budget provision of Rs. 20,000 portions of footpaths along the following roads were paved :—

	Area in sq. ft.
Connaught Road	3,000
Foras Road... ..	14,400
Sleater Road	1,640
Gowalia Tank Road (between Bomanji Petit Road and Cum-bala Road)	2,180
Gowalia Tank Road (junction with Altamount Road)	927
Pedder Road (between Hermitage Pass and Gowalia Tank Road)	2,280
Queen's Road (junction with Lamington Road)	1,452

85. The work at Mint Road, Fort Street, Abdul Rehman Street and Frere Road was in progress.

Footpaths Formed.

86. Footpaths were newly formed at the following places, the expenditure being met from the Budget grant for repairs and maintenance of roads and footpaths :—

	Area in sq. ft.
Frere Road (near Mallet Street)	2,220
Grant Road (junction with Bapty Road)	1,300
3rd Pinjrapole Road	550
Kalbadevi Road (junction with Takwadi)... ..	225
Do. do. (junction with Hanuman Lane)	700
Dadyshet Agiary Street (junction with Girgaum Road)	1,320
Kika Street	270
Do.	304
Kumbharwada North	440
Do. South	467
Northbrook Garden	500
Bhuleshwar Road (junction with Princess Street)	864
Do. do. (near House No. 113-123)	1,137
Mumbadevi Road (junction with Nakhoda Street)... ..	720
Do. do. (junction with Masjid Street)	2,456
Do. do. (near Municipal depôt)	750
Erskine Road (junction with Sandhurst Road)	1,755
Shaik Memon Street	184
Girgaum Road	3,600
Harvey Road	1,960
Currey Road	3,460
Fergusson Road	3,420

87. Footpaths were formed at the following places in the process of adding set-backs to roads :—

	Area in sq. ft.
Masjid Bunder Road (junction with Samuel Street)	1,420
Samuel Street	240
Abdul Rehman Street	1,770
Kalbadevi Road (junction with Vithalwadi)	480
Tardeo Road (opposite Wadia Street)	3,090
Dockyard Road	1,900
Mount Road (West side)	4,300
Do. (East side)	4,900
Worli Sluice Road (North side)	7,080
Do. do. (South side)	5,832
Loye Grove Road (West side)	6,120
Do. do. (East side)	5,040
Lady Jamsetji Road (junction with Mahim Bazar Road)	3,300
Lady Jamsetji Road (near Mahim Customs)	960
Mahim Bazar Road	2,578

OVERBRIDGES.

88. The work of constructing the **Currey Road Overbridge** has been completed with the exception of the approach along **DeLisle Road** which could not be taken in hand as it has to be done conjointly with the **B. B. & C. I. Railway Co.** who are not yet ready for their work. Temporary arrangements have been made to throw open the bridge to the public.

89. The Railway Board have not yet sanctioned funds for the construction of the **Clerk Road Overbridge B. B. & C. I. Railway** owing to the war, though the necessary land has been made available by the Municipality.

90. Negotiations have been opened with the owners of the properties required for the 80 ft. **DeLisle Road Overbridge**. The vacant land lying within the setback lines and required for the bridge and low level roads has been acquired under Section 299 of the Municipal Act. The Government have been requested to acquire properties under the Land Acquisition Act in two cases where negotiations have failed.

91. The alignment of the **Dadar Overbridge** has been finally settled. The detailed plans are being prepared by the Railway Company in consultation with the Bodies concerned.

92. Arrangements have been made for disposing of the surplus land acquired in connection with the **Clerk Road Overbridge G. I. P. Railway** in order to utilize the realization as a set off against the cost of other overbridges.

93. The properties acquired in connection with the overbridges, which have not been pulled down, continue to be rented to tenants.

94. The certified expenditure payable by the Municipality during the year for all the overbridges amounted to Rs. 9,201-0-6.

DRAINAGE.

Construction of Drains and Drainage Structures.

95. The second section of the **ovoid sewer in connection with the duplication of the main sewers on account of the duplication of the Tansa main**, from Clerk Road to the Junction of Lamington Road and Gilder Lane, which was entrusted to Messrs. Allimahomed Haji Vallimahomed and Company under the Standing Committee's Resolution No. 4188, dated 4th October 1915, was completed by them on 4th May 1916, the Contract date for completion being the 25th June 1916. This section together with the first section worked very satisfactorily during the year.

96. Tenders for the Third Section of the **ovoid sewer from the Junction of Lamington Road and Gilder Lane to the Junction of Charni Road and Khetwadi Back Road** were invited on the 13th October 1916. Two tenders were received, of which the lower tender of Messrs. Vithal Sayana and Company amounting to Rs. 2,33,549-0-50 was accepted by the Standing Committee under their Resolution No. 4959, dated 15th November 1916, although it was higher than the Office estimate by about Rs. 34 656-160. The work is progressing satisfactorily and though the route has been full of difficulties, it is expected to be completed before the rains of 1917, the contract date for completion being the 29th May 1917.

97. The total certified expenditure on the three Sections upto the end of the year amounted to Rs. 7,66,065-13-9.

98. Owing to constant complaints regarding flooding and the consequent stoppage of tram traffic in Balaram Street, a storm-water drain in the Southern half of Balaram Street was sanctioned, and tenders for this work were invited simultaneously with those for the work of the third section of the Ovoid Sewer, and the lower tender of Messrs. Vithal Sayana and Company amounting to Rs. 5,868-940 was accepted by the Standing Committee under their Resolution No. 4959, dated 15th November 1916. The work was nearing completion during the year.

99. All the main works at Love Grove in connection with the **Measures for Relieving the surcharging of sewers** have been completed and only small auxiliary works, such as the pavement of the coal yard and a glazed porch in front of the Engine House were in progress during the year. Other subsidiary works had to be postponed owing to the difficulty in procuring articles from England on account of the War. The total certified expenditure upto the end of the year including that on the subsidiary works amounted to Rs. 17,99,889-7-0.

100. Mr. G. Midgley Taylor's futher report on the **Sewerage of the North of the Island** with a special reference to the type of the power to be adopted at the Pumping Station has been still under consideration. As regards the main sewers, the carrying out of this work has had to be postponed owing to the financial conditions due to the War.

101. No futher claims for the pieces of lands for the **Extension of the low level channel No. 11 from DeLisle Road to Dadar Road**, through which the Channel was constructed under the powers reserved to the Commissioner under Section 222 of the Municipal Act, were preferred during the year. The total certified expenditure upto the end of the year amounted to Rs. 2,84,489-3-7.

102. The agreement for the construction of **Storm-water Drain through the Petit Orphanage Compound at Parel** referred to in the last year's Administration Report was completed during the year.

103. The construction of the **Storm-water Drain in Dadar Road (South)** entrusted to Messrs. Fakir Mahomed Mehta and Company under the Standing Committee's Resolution No. 4574, dated 21st October 1915, was completed on 13th April 1916, the contract date for completion being the 18th February 1916. The total certified expenditure upto the end of the year amounted to Rs. 22,810-14-4. The drain worked satisfactorily during the last rains.

104. Owing to complaints regarding flooding, **Storm-water Drains in Waudby Road and Napier Road** were sanctioned, and tenders returnable on the 28th March 1917, were invited, and the lowest tender of Messrs. Haji Ahmed Haji Suleman and Company amounting to Rs. 22,725-230 was recommended for acceptance.

105. An **open Road side drain with 4" stoneware Channel pipe** was provided departmentally at **Walkeshwar Road from its Junction with Ridge Road** at a total cost of Rs. 3,975-14-8.

106. A 6" C. I. Pipe Line for the Exhaust Air from the Ejector Station No. 3 near Coloba Railway Station to the base of the chimney shaft of the Old Prince of Wales Press at Victoria Bunder was laid departmentally. The certified expenditure up to the end of the year amounted to Rs. 2,450-14-8.

107. Tenders for the work of **Constructing a Storm-water drain with half-sized water entrances in Wodehouse Road near Panday Sanitarium, Coloba**, were invited on 4th October 1916; the lowest tender of Messrs. Shamsunder Balaji and Company amounting to Rs. 4,502-4-0 was accepted by the Standing Committee under their Resolution No. 4850 of 8th November 1916. The work was completed on 15th January 1917 at a total cost of Rs. 4,733-4-1.

108. A **Storm-water drain in a portion of Thakurdwar Road from its junction with Mughbat Cross Lane** was provided by the Petty Works Contractors, Messrs. Haji Ahmed Haji Suleman and Company at a total cost of Rs. 1,679-1-6.

109. A **masonry drain, 2" x 2" covered with dhapas with necessary manholes and water entrances into the kutchha water course behind Madhavji Dharumsey Mills at Foras Road** was provided by the Petty Works Contractors, Messrs. Haji Ahmed Haji Suleman and Company at a total cost of Rs. 2,925-4-11. The filling in and levelling wherever required was done by Messrs. Vithal Sayana and Company, Contractors for the **Duplication of the main Ovoid Sewer**.

110. The work of **Laying a temporary masonry and steel-pipe storm-water drain** was taken in hand departmentally in Mahim Bazar Road at its Northern end and is progressing satisfactorily. The certified expenditure up to the end of the year amounted to Rs. 219-13-0.

111. The work of providing a **Covered masonry storm-water drain** was taken in hand departmentally in Victoria Gardens and is progressing satisfactorily. The certified expenditure upto the end of the year amounted to Rs. 3,900-5-10.

112. Tenders for the work of **Duplicating the sewer from Charni Road to Sandhurst Bridge** were invited on 4th October 1916. The lowest tender of Mr. Abdul Karim Haji Karim Bux amounting to Rs. 13,355-6-4 was accepted by the Standing Committee under their Resolution No. 4958 of 15th November 1916. The work was completed on 13th April 1917, although the Contract period expired on 11th February 1917.

113. The work of **channeling and pitching a portion of the water course No. 75 at the west of the Elphinstone Road Station** is being carried departmentally. The certified expenditure booked upto the end of the year is Rs. 351-4-0.

114. In pursuance of action taken under Section 305 calling upon owners of certain private streets to metal, pave, channel, light and drain the same, the following works of Storm-Water Drain and Sewers were carried out:—

- (1) Storm-Water Drain with half-sized water entrances, manholes and underground flushing tank in the private lane running between Khetwady Main Road and Girgaum Back Road. Tenders for this work were invited on 28th February 1916 and the lowest tender of Messrs. Gangaram Ashana Telang and Company was accepted by the Standing Committee under their Resolution No. 8484 of 29th March 1916, and the work was completed on 2nd June 1916 at a total cost of Rs. 6,234-12-9.
- (2) Tenders for laying 9' pipe sewer and Storm-Water Drain in the passage off Fergusson Road were invited on 14th December 1916 and the lowest tender of Messrs. J. L. Mehta and Company amounting to Rs. 25,797-14-11 was accepted by the Standing Committee, under their Resolution No. 6556 of 24th January 1917. The work is progressing satisfactorily and is expected to be completed on 28th May 1917.

Alterations of Drains.

115. A further amount of Rs. 5,000 was provided for the replacement of Stoneware Pipes in Colaba Sectional District by C. I. ones in addition to the balance of Rs. 2,203 renewed from the last and previous years grants. The work was taken in hand in October 1916 and completed. The certified expenditure upto 31st March 1917 amounted to Rs. 60,341-2-1 out of a total provision of Rs. 62,140-4-1 sanctioned upto date.

116. The work of renewing the 15" C. I. Sealed Sewage Main in Fergusson Road was carried out departmentally during the year and a length of 476 R. ft. was renewed at a total cost of Rs. 11,848-12-2.

Maintenance of Drains.

117. No damage of any kind was done either to the sea walls or to the Biological Installation in connection with the Malabar Hill Sectional Sewerage Works during the last rains.

118. The Storm-Water Drains in Reay Road, Connaught Road, Parel Road and Sopari Baug Road worked satisfactorily during the year.

119. The arched portion of the Old Main Drain passing under and across the Bellasis Bridge West Approach gave way during the rainy season on the night of 9th September 1916. A special grant of Rs. 10,000 was sanctioned under Corporation Resolution No. 5019 of 16th November 1916 to rebuild the same and the whole work was completed departmentally and the road opened to the public on 6th January 1917. No mishap occurred and the flow of Storm-Water was not retarded at any time. The expenditure booked upto the end of the year amounted to Rs. 9,685-11-1.

120. There are about 117 miles of pipe sewers and systematic cleaning of these sewers has been done throughout the fair season. A double disc and cleaning rod have been passed through 50.53 miles of these sewers and the silt removed therefrom amounted to 1882.12 tons or 47,920 c.ft.

121. There are 12.65 miles of Ovoid Main Sewers. About 13.42 miles of these sewers were scraped and 13.59 miles were traversed by the Scraper and 270.11 tons or 6,876 C.ft. of Silt removed therefrom.

122. There are 150 miles of Storm-Water Drain out of which 41.49 miles were cleaned and 14,318.86 tons or 364,480.31 c.ft. of Silt were removed by the miscellaneous Drainage Staff.

123. An extra grant of Rs. 4,000 for cleaning Storm-Water Drains was provided in the Budget and the work of cleaning the Storm-Water Drain in Tardeo Road and a portion of Argyle Road Storm-Water Drain was done from March to June and from October to February 1917 at a total cost of Rs. 3,999-14-0.

124. There are 30 catch-pits on Pipe Sewers and 9 on Main Sewers and the Silt removed therefrom during the year amounted to 3,454.44 tons or 87,931.30 c.ft.

125. There are 460 underground flushing chambers to flush Pipe Sewers, 13 Flushing Doors to flush Ovoid Sewers, and 685 Vent Shafts to ventilate Sewers.

126. The construction of Relieving Arches for strengthening the Old Main Drain in Falkland Road was undertaken departmentally and completed on 31st December 1916. The total cost amounted to Rs. 5,550-12-4 against the grant of Rs. 5,000 plus the renewed balance of Rs. 567 from the last year's grant.

127. The work of cleaning the Open Main Drain at Worli was done at a cost of Rs. 3,198-11-2 out of the grant of Rs. 3,200 provided for the purpose and the Silt removed amounted to 33,080 c.ft.

128. The expenditure on the maintenance and upkeep of the Open Main Drain and the Low-Level Channels was Rs. 4,998-14-6 against the grant of Rs. 3,000 plus the renewed balance of Rs. 2,000 from the last year's grant.

Ejectors.

129. The New Ejectors at Nos. 3, 4 and 5 Stations in the Colaba Sub-Districts were working satisfactorily and some minor works in connection with the Station No. 5 were completed. The total certified expenditure upto the end of the year amounted to Rs. 1,08,804-6-10.

Latrines, Urinals and Night-soil Depots.

130. A 12" C. I. Storm overflow was provided departmentally at the Night Soil Depôt at Pilot Bunder, Colaba, for the efficient working of the Depôt at a total cost of Rs. 3,021-8-10.

131. 19 New Pattern Latrines and Urinals were connected departmentally with the sewer recently laid in the Elphinstone Reclamation District at a total cost of Rs. 1,410-0-7.

132. The following Latrines and Urinals were erected during the year:—

No.	Name of Work.
1	Removing the existing 8 seated Latrine and constructing 4 seated Water-closet on full flushing system at Boombala Chor Lane.
2	Six compartments latrine at the junction of Northbrook Street and Grant Road.
3	Converting the existing 3 seated Torfit Pattern Urinal into trough pattern one at the junction of Bellasis Road and Shaik Budan Commodin Street.
4	15 seated Latrine at Tardeo Flats.
5	2 seated trough pattern Urinal at the junction of Mugbhat and Pimpalwady.
6	2 seated Urinal at Durgadevi Street near its junction with Duncan Road.
7	2 sets of two seated trough pattern Urinal in Carwar Street.
8	4 seated trough pattern Urinal at Girgaum Back Road.

133. The first three were carried out by the Petty Works Contractors and the rest were done departmentally.

Street and House Connections.

134. The street portions of the house drainage connection works in the City were carried out departmentally during the year, 255 connections being made at a total cost of Rs. 14,190-15-10. These connections serve 246 premises, of which 236 are drained on the closed system and 10 on the open system.

135. In addition to the above, 185 Storm-water connections were made at a total cost of Rs. 7,264-11-10.

136. Several branch drains were laid for bringing certain undrained premises within 100 feet of the Municipal Sewer as required by Section 231 of the Municipal Act. About 75 estimates and 340 plans were prepared with a view to the issue of Notices under Sections 230, 231, 232, 238 and 260 of the Municipal Act.

Miscellaneous.

137. Works to the extent of about Rs. 83,110-10-6 including repairs, alterations and cleaning of sewers and drains generally and making minor additions thereto, and the drainage arrangements of the various Health Camps, etc., as also all new drainage works provided in the Budget for 1916-17 were carried out during the year. Out of these, works costing Rs. 45,066-1-10 were carried out departmentally and the rest were executed through the agency of the Petty Works Contractors.

138. The following manhole frames and covers over Storm-Water Drains were provided :—

Nos. 18 in Tardeo Road.
„ 2 in Sonapur Street.
No. 1 at the junction of Princess Street and Shaik Memon Street.
„ 1 in Trinity Street.
„ 1 at the junction of Shaik Memon Street and Mumbadevi.

Total Nos. 23

The certified expenditure amounted to Rs. 2,752-7-6.

139. A new type of improved concrete covers for water entrances was introduced three years ago, and it has proved satisfactory for effectually closing these entrances during the fair season and thus preventing the breeding of mosquitoes. The total number of such covers fixed is 1,603 as under, the cost having been met from the Miscellaneous Grant:—

	Nos.
In A Ward	893
„ B „	129
„ C „	197
„ D „	158
„ E „	106
„ F „	112
„ G „	8

Total Nos. 1,603

140. Action was taken under Section 231 of the Municipal Act calling upon three of the owners of the properties comprised in the Malbar Hill Sewer District to connect their premises with the new Sewer. All the notices were complied with in the course of the year.

MECHANICAL BRANCH.

Municipal Workshops.

141. The following are the particulars of expenditure incurred during the year for departmental and private works, executed at the Municipal Workshops, for shop and supervision charges, tools and repairs to machinery, buildings, &c. :—

	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
<i>For Departmental Works—</i>									
Labour	...	...	...	...	...	...	74,573	6	7
Stores	...	...	...	...	...	...	1,00,433	11	9
Piece-work, cart-hire, &c.	...	...	...	...	...	...	743	12	9
							1,75,750	15	1
<i>For Workshops Stores—</i>									
Labour	...	...	...	...	...	...	746	8	0
Stores	...	...	...	...	...	...	4,341	1	1
							5,087	9	1
							1,80,888	8	2
<i>For New Municipal Workshops—</i>									
Labour	...	...	...	...	...	...	8,925	12	0
Stores	...	...	...	...	...	...	8,096	15	9
							12,022	11	9
							12,022	11	9
<i>For Shop Charges—</i>									
Labour	...	...	...	...	...	...	6,150	5	5
Stores	...	...	...	...	...	...	15,732	10	2
Piece-work, contingencies, &c.	...	...	...	...	...	...	105	0	0
							21,987	15	7
<i>For Supervision Charges, Establishment, Rent, &c.</i>									
Establishment	...	...	...	...	...	...	15,334	10	7
Piecework	...	...	...	...	...	...	0	4	0
Repairs to buildings	...	...	...	...	...	...	13	11	4
Rent paid to Government	...	...	...	...	...	...	6,648	0	0
Contingencies	...	...	...	...	...	...	1,177	5	8
							23,173	15	7
Total Expenditure for working the Shops	...						45,161	15	2
Total Expenditure during 1916-17 was	...						2,38,023	8	1

	Rs.	a.	p.
142. The total expenditure during 1916-17 on account of Departmental Works, &c. (Rs. 1,75,750-15-1), for Workshops Stores (Rs. 5,087-9-1) and for fixing machinery in the 1st and 2nd sections of the New Municipal Workshops (Rs. 12,022-11-9), aggregated with the amount charged for supervision, tools, shops, and repair job charges, &c. (Rs. 44,732-10-4) to	2,37,593	14	8
Add—Amount of incomplete jobs at the beginning of the year 1916-17	9,533	9	8
	2,47,127	7	11
Deduct—Amount of incomplete jobs at the end of the year 1916-17	4,069	10	3
Thus the total amount of bills prepared by the Workshops in the year 1916-17 was	2,43,057	13	8

143. Percentage for Supervision, Shop, Repair Charges, &c.—

	Rs.	a.	p.
The actual charges for the general working of the shops (Rs. 21,987-15-7) for rent and supervision (Rs. 23,173-15-7) amounted to	45,161	15	2
The amount recovered on account of the abovementioned expenses by charging the fixed percentage of 25 per cent. on the cost of works executed at the shops was	43,642	3	4
The difference between the actual cost of working the Municipal pumping engine plus 25 per cent. for shops supervision, repairs, &c., and the fixed charges at which it was lent on hire to private parties and departmental works was	1,090	7	0
The amount realized by sale of saw-dust, coal ashes and unserviceable articles, &c., was	9,070	4	6
The balance in favour of the Workshops was therefore	8,640	15	8
Total	Rs. 53,502	14	10
	53,502	14	10

144. The following are the principal items of new works completed during the year :—

Description of Works.	Amount.
	Rs. a. p.
Supplying timber for block moulds for the Love Grove Outfall Works	2,446 7 3
Making and fixing Belfast trusses for the stone crushing machine shed at Sewree	2,808 13 5
Repairing iron stalls of Arthur Crawford Beef Markets... ..	1,520 6 8
Repairing a second-hand Locomotive and fitting a new cylinder for the Love Grove Outfall Works	999 6 0
Making 2 wooden doors at the Erskine Road Vegetable Market	892 0 11
Making an extension base for a Titan Crane for the Love Grove Outfall Works	5,750 10 1
Making Wagon bodies for two "White" Petrol Motor Refuse Wagons Nos. 15 and 16 for the Health Department	1,839 9 4
Reconstructing one meat van for the Market Department	637 0 11

145. Works completed which were commenced in the previous year :—

Description of Works.	Amount.
	Rs. a. p.
Fixing machinery, &c., in the 1st Section of the new Municipal Workshops at Foras Road	11,297 4 9
Fixing coal tramway at the Love Grove Pumping Station	1,398 4 5
Converting 11 N. P. hydrants into 22 Hewett pattern hydrants	700 5 0
Do. 11 do. do. 22 do. do.	693 13 11
Do. 23 do. do. 46 do. do.	1,329 6 8
Do. 22 do. do. 44 do. do.	1,271 8 8
Do. 18 do. do. 36 do. do.	1,032 1 10
Erecting portable engine and stone breaking machinery at Sewree	851 13 6
Providing 18 road water tanks with stands in E Ward for the Road Department	4,738 3 2
Reconstructing 3 meat vans for the Market Department	1,996 8 7
Supplying timber for staging for Love Grove Outfall Works	11,620 0 1
Laying wood block flooring in the fitting and machine shops of the new Municipal Workshops	4,318 14 11
Making 18 hand barrows for the Health Department	1,394 14 8
Providing a travelling crane at the Sankli Tank Fire Brigade Station	593 8 11
Constructing 6 iron meat stalls for the Dadar Private Market	1,012 3 8

146. The following are the principal items of new works which were in progress but were not completed before the close of the year :—

Description of Works.	Estimated cost.	Expenditure upto 28th February 1917.
	Rs. a. p.	Rs. a. p.
Making 2 carts for carriage of dogs and 24 dog cages for the lethal chamber at Tardeo Flats. .	1,900 0 0	1,826 11 8
Making and erecting tyre furnace and shed at the new Municipal Workshops	5,364 0 0	3,880 6 3
Making alterations to the lethal chamber at Tardeo Flats	715 6 0	607 13 3
Making 10 flexible road watering stand pipes for the Road Department... ..	742 8 0	485 12 10
Altering Allday Motor Wagon No. 90 for meat service	2,962 0 0	2,187 14 0
Making and erecting two 6 ft. square water tanks at Gibbs Road	Actual cost.	1,205 5 1
Working two pulsometer pumps for emptying Government wells on the Esplanade Maidan for the Executive Engineer, Presidency	1,845 0 0	804 2 11
Fixing machinery in the 2nd Section of the New Municipal Workshops... ..	13,554 11 0	13,546 1 10

147. In addition to these works the Workshops have continued to keep in repair the rolling stock of the Health, Road and Drainage Departments, the machinery of the Love Grove Pumping and Compressor Stations, the Colaba Compressor Station, the Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill, Mazagaon and Colaba Districts, Steam Rollers, Stone Crushing Machines, Fire Engines, Motor Refuse Wagons and Inspection Motor Cars, &c.

148. On account of the work carried out during the year being in excess of anticipations, the grant for Stores had to be supplemented by an advances of Rs. 36,000 from Surplus Cash Balance, sanctioned under Corporation Resolution No. 7834 of the 12th March 1917, pending recoveries for the several works.

149. It was also necessary to supplement the grant for rent payable to Government by an advance of Rs. 4,840 from Surplus Cash Balance, sanctioned under Corporation Resolution No. 6246 of the 11th January 1917, pending adjustment against the Workshops Profit and Loss account, owing to the premises at Palton Road not having been vacated as early as was expected.

150. The following machinery and plant on order for the new Workshops was received during the year :—

Description.	Cost.	Contractors for the supply.
	Rs. a. p.	
20 Parallel vices and 6 staple vices	1,277 9 0	Messrs. Macbeth Brothers & Co.
Motor driven beam and angle bending machine ...	4,140 7 0	Do.
15 Cwt. steam hammer... ..	5,861 15 0	Do.
6 Feet wheel tyreing platform	905 2 3	Do.
Carr's No. 5 double brass melting furnace with acces- sories... ..	973 4 0	Messrs. Morgan's Crucible Co., Ltd.
Morgan's patent tilting furnace	2,212 9 0	

151. The following items of plant received during the previous year were erected by Messrs. Macbeth Brothers & Co. during the year and the bills for the same were passed :—

Description.	Cost.
	Rs. a. p.
Supplying and laying blast mains and specials	3,045 0 0
Supplying and fixing straight chimney for 4 smiths hearths	745 8 0
Overhead smoke pipes for smiths hearths	3,249 12 0
2 Chimneys for smiths hearths	2,982 0 0

152. Under the Standing Committee's Resolution No. 2377 of the 12th July 1915 Messrs. W. H. Brady & Co. were allowed an *interim* payment of Rs. 7,700-4-0 on account of the supply of a 5-ton overhead travelling crane and smiths hearths in 1915-16 at a total cost of Rs. 10,267. The articles supplied were not entirely in accordance with the specifications and the Contractors will carry out the necessary alterations as soon as the required parts can be obtained from the manufacturers. There are still several items of machine tools, principally lathes, to be supplied under the contracts with Messrs. Turner Hoare & Co. and Messrs. Macbeth Brothers & Co., but it is unlikely that they can now be manufactured and shipped before the close of the War. The absence of these tools is severely felt but the pressure in the small turnery department was much relieved by the purchase from Messrs. Turner Hoare & Co., of three 7½" sliding, surfacing and screw cutting lathes. Two of these lathes were supplied in July 1916 at a cost of Rs. 3,135 and one in December 1916 at a cost of Rs. 1,650. The cost has been provisionally met from the allotment for the purchase of tools pending the delivery of the items not yet supplied.

153. The storm-water drainage of the main portion of the new Workshops compound, which was completed by the Drainage Department at the close of the year 1915-16, was charged off during the year at a cost of Rs. 9,353-2-7.

154. Further progress was made with the packing and metalling of the compound by the Road Department at an estimated cost of Rs. 9,696-8-0 and the total amount expended up to the close of the year was Rs. 4,433-3-10.

155. The provision of a re-inforced concrete cover over the cast iron overhead water tank, which was in progress by Messrs. Marsland Price & Co. at the close of the year 1915-16, was completed in April 1916 at a cost of Rs. 1,350.

156. It was mentioned in the previous year's Report that plans and estimates for the 3rd and final section of this new Workshops amounting to Rs. 74,158, which involved an anticipated excess of Rs. 22,500 in the grant of Rs. 5,00,000 for the work, were submitted in February 1916 and that steps were being taken to supplement the grant. Under Resolution No. 750, dated the 1st May 1916, the Corporation sanctioned an additional grant of Rs. 22,500 as an advance from Surplus Cash Balance and tenders for the work were thereafter invited. Messrs. Dayabhai Vasanji and Son's tender at rates aggregating Rs. 65,525-7 was accepted by the Standing Committee, *vide* their Resolution No. 2716 of the 28th July 1916 and the work was commenced on the 9th August 1916 and was in progress at the close of the year. The time for completion is 9 months.

157. The estimates abovementioned included the construction of (a) brass foundry and furnaces, &c., (b) cut timber store, (c) dust-bin cart, meat van and night-soil cart repair shed, (d) engine and pump shed, (e) alteration of West market building to serve as a Store, and (f) alteration of East market building for paint shop, but owing to a further rise in the price of all materials since the estimates were prepared, it was necessary to defer the construction of the cut timber store at an estimated cost of Rs. 12,786 to bring the amount of the accepted tender within the sanctioned grants. The equipment of the brass foundry with furnaces, &c., at an estimated cost of Rs. 5,654 was undertaken by the Workshops but was not completed upto the close of the year owing to the inability of Messrs. W. H. Brady & Co. to supply the Allday's emergency tilting cupola ordered from them in August 1916, at a cost of Rs. 961.

158. The Workshops also took in hand the construction of a tyre heating furnace with shed and chimney and wheel tyreing platform, &c., at an estimated cost of Rs. 5,364. The tyreing platform was supplied by Messrs. Macbeth Brothers & Co. in September 1916, at a cost of Rs. 905-2-3, and the work was approaching completion at the close of the year.

159. The amount passed against Messrs. Dayabhai Vasanji and Son's contract upto the 28th February 1917 was Rs. 37,880-12-0 and the total amount passed under all heads in the construction of new Workshops upto the same date was Rs. 4,70,781-1-4.

160. Progress was made during the year with the removal of machine tools, plant and workmen from the old Workshops at Palton Road to the new premises at Foras Road and the work was almost concluded by the transfer of the Smiths, Boiler-makers and the Office Staff in February 1917. It will still take some time to get everything into full working trim, but the improvement effected by the introduction of more modern methods is already very marked.

The Love Grove Pumping Stations.

161. The beam engines and pumps in No. 2 Pumping Station worked fairly satisfactorily during the year, but there was a slight fracture of the outside plunger chamber of No. 1 engine and several fractures of delivery valve frames during the early part of the year while pumping through the old high-level outfall.

162. The sewage was diverted into the completed portion of the new low-level outfall from the 6th June 1916, and during the monsoon a short diversion was laid from the sea end of the left hand barrel at an angle to the permanent work to permit of the discharge of sewage to sea without interfering with the work of construction.

163. It is hoped before the next cold season to place the diversion further out to sea and this together with the temporary barrier of concrete blocks now under construction to prevent the storm-water channel being silted up after the monsoon should greatly minimise any nuisance during next cold weather. Owing to the impossibility of obtaining new plunger chambers, &c., from the manufacturers during the continuance of the War, it will not be possible and in any case would not have been expedient to again revert to the use of the old outfall with its attendant heavy strain on the pumps.

164. Of the several new parts ordered from the manufacturers during the previous year, two new delivery valve frames of a stronger pattern were received in July 1916, at a total cost of £184-15-9 plus Rs. 123-11-2 Customs duty and clearing charges, &c. Two new suction frames were also received in February 1917, and of these one frame was ordered in the previous year and one in May 1916, *vide* the Standing Committee's Resolution No. 1401 of the 31st May 1916: The total cost of these purchases is not yet known. Some progress was reported with the manufacture of the new plunger chamber for No. 2 engine which has been on order since July 1915, but it was not completed upto the close of the year and the same remarks apply to the new air vessel and connections which were ordered in August 1915.

165. In consequence of the further breakage of delivery valve frames, two more frames of the stiffened pattern were ordered in December 1916 at a cost of £190, f. o. b., *vide* the Standing Committee's Resolution No. 5811 of the 20th December 1916, but as there is little prospect of their being received for some time to come, and the replacement of cracked frames was urgent, the Municipal Workshops took in hand the manufacture of two frames of a modified design and the work was in progress at the close of the year.

166. Between the 8th June and the 31st October 1916 the pumps in No. 2 Station were assisted by the old Worthington pumps in No. 1 Station for an aggregate working period of 949 hours and 25 minutes and in consequence of heavy rainfall it was on two occasions necessary to have six engines in the new and old Stations working together for a period aggregating 6 hours and 55 minutes.

167. The combined total number of revolutions of all engines in No. 1 Station was 13,48,594 and in No. 2 Station, the total was 2,57,66,532. The sum of these totals equals 2,71,15,126 against 1,89,89,604 in the preceding year. This heavy increase is partly due to the late continuance of the Monsoon, but principally to the increase in the water supply.

168. The following shows the total quantity of coal of different descriptions consumed during the year with their average rates per ton:—

Description of coal.	Tons.	Average rate.
		Rs. a. p.
Bhalgora Rubble	3,092-12/20	15 13 9-7
Sejooah Rubble	180	16 7 0
Desharghur Steam	39	22 0 0
Several mixed descriptions purchased locally	1,229-18/20	28 9 11-2

169. The average rate per ton for all these descriptions of coal was Rs. 19-6-3-5 per ton as against Rs. 17-7-5 in the previous year, and the average daily consumption was 12 tons, 8 cwts. 3 qrs. and 11 lbs. against 11 tons, 15 cwts. and 20 lbs. in 1915-16. This increase is considerably below the proportionate increase in engine revolutions, and it is principally due to the more extended use of the low-level outfall.

170. Great difficulty was experienced after the close of the Monsoon in obtaining sufficient coal to keep the Stations at work and on several occasions the stock was reduced to a few hours consumption. By the end of October 1916, the Contractors for the supply of Bhalgora rubble coal were nearly 1,600 tons in arrears under their contract and upto the 1st January 1917, the arrears had increased to 2,500 tons. This resulted in the Municipality having to make numerous purchases upto a total of 2,550 tons of small lots of ready coal from the local market before the close of the year, and on account of the prevailing scarcity the rates in February 1917, reached a maximum of Rs. 38 per ton for delivery from Bunder. The kind offices of the Local Government had eventually to be requisitioned and thanks are due to Mr. P. R. Cadell, C.I.E., I.C.S., Chief Secretary to Government, for his assistance in the matter which resulted in coal coming forward in sufficient quantities soon after the close of the year.

171. The general repair to No. 1 engine in the No. 1 Pumping Station, which included the renewal of the pump rams and bushes was in progress during the year and was approaching completion at its close.

172. 931½ lbs. of "7,873" quality valve faces were purchased for the sewage pump valves in No. 1 and No. 2 Stations from the Calcutta Branch of the India Rubber, Gutta Percha and Telegraph Works Co., Ltd., in February 1917, at a cost of Rs. 2-10-3 per lb.

173. The work of paving the coal yard and providing a light railway with tip wagons and turntables, etc., at an estimated cost of Rs. 27,417 as sanctioned by Corporation Resolution No. 138 of the 6th April 1914 was completed during the year at a total cost of Rs. 20,647-8-0, out of which Rs. 13,093-5-2 was expended by the Drainage Department in paving the yard and Rs. 6,730-7-4 by the Mechanical Branch in providing and laying the light railway, &c.

174. The cap of the stone chimney of No. 2 Pumping Station which was damaged by lightning during the Monsoon of 1914 was renewed by the Petty Works Contractor during the year at a cost of Rs. 316-13-10, and the lightning conductor which was also damaged at the same time was repaired and refixed by the Workshops at a cost of Rs. 45.

175. Two new sets of roller chain for driving the fine screens in the screening chamber were purchased from Messrs. S. S. Stott & Co. in December 1916, at a cost of £201-13-3 plus Rs. 93-13-0 Customs duty and delivery charges, &c.

176. Of the several supplementary works sanctioned under Corporation Resolution No. 176 of the 8th April 1915, the following progress was made during the year :-

1. Construction of a new road along the south and east sides of the new engine house, pitching the slope of the approach road to the engine house and laying out a garden at an estimated cost of Rs. 7,826. This was completed during the year at a total cost of Rs. 5,786-15-2.
2. Construction of a glazed porch in front of the main entrance of the new engine and fixing a glazed sky light in the west wall of the engine house at an estimated cost of Rs. 2,805. The latter work was completed in the previous year, but the construction of the porch could not be taken in hand so long as the chambers round the openings above the discharge well in front of the engine house to take the surge of the discharge while pumping through the high level outfall were in use. Their removal was made possible by the introduction of the previously mentioned bye-pass on the line of the new outfall and they were removed and the construction of the porch was commenced under the supervision of the Drainage Department at the close of the year.
3. Extending the bucket and band conveyors for the dredging and screening plant to deliver above ground level at an estimated cost of Rs. 4,818. No progress could be made with this work owing to pressure of War orders with the manufacturers.
4. Removing and reconstructing the retaining wall and filling in the existing low level silt and screenings delivery passage to ground level and covering the chamber to the south of the Screen House at an estimated cost of Rs. 7,028. The former work is dependant upon the work as per item No. 3 and could not therefore be taken in hand. The work of covering the chamber was carried out by the Drainage Department at a cost of Rs. 271-12-10.
5. Providing railings to steps in front of the new engine house and fixing lead and galvanized iron sheet weathering to the roof at an estimated cost of Rs. 260. The first mentioned work is contingent upon the construction of the porch and the latter work was completed in the previous year.

177. Owing to the purchase of new valve frames and screen chains the grant for Contingencies and Stores had to be supplemented by an additional grant of Rs. 8,000 from Surplus Cash Balance, *vide* Corporation Resolution No. 7843 of the 12th March 1917. Revisions in the Schedule of salaries and the grant of 2 months' privilege leave to the Assistant 1st Engineer also made it necessary to adjust an excess of Rs. 620 in the grant for Establishment against the Budget grant of Rs. 50,000 for estimated increase to staff.

178. Mr. G. P. Cable, I.A.R.O., 1st Engineer, was on service with the Mesopotamian Field Force throughout the year, and Mr. A. E. Jordian continued in the acting appointment.

179. The property on Worlee Hill, including "Sethna Villas" Nos. 1 and 4, which were rented for the occupation of the Assistant 1st Engineer and the Supernumerary Engineer at the respective rents of Rs. 135 and Rs. 60 per mensem was purchased by the Municipality and taken over from the 16th December 1916 and the payment of rents from the station grants ceased from the same date.

180. Owing to the conditions prevailing, no further progress could be made with the scheme for providing additional pumping plant at the stations.

The Love Grove Compressor Station.

181. The machinery of the Compressor Station and the several Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill and Mazagon Districts worked fairly satisfactorily during the year. The Fergusson and Parel District Ejectors have been found of insufficient capacity to deal with the sewage without a surcharge at the time of maximum flow. Provision has, however, been made in the next Budget for the construction of a storm-water drain in Currey Road. This drain has been designed to carry off from the adjoining low-lying ground, much of the surface water which at present finds its way into the sewers and thence to the overworked ejector at the junction of DeLisle Road and Fergusson Road.

182. The discharge from the Sewree Ejector which formerly passed through the Arthur Road Ejector has been diverted to the Chinchpokli Ejector thus affording relief to the Arthur Road Ejector which was somewhat overtaxed.

183. Under the scheme for the Drainage of the North of the Island, the work of which will be commenced when conditions permit and materials can be obtained, it is proposed that the districts now drained by (a) 3 ejectors of 1,000 gallons capacity each at DeLisle Road, (b) 2 ejectors of 1,000 gallons capacity each at Elphinstone Road, and (c) 2 ejectors of 1,200 gallons capacity each at Arthur Road shall drain direct into the new system. This will not only put the drainage of these districts on a more satisfactory footing, but it will effect a great saving in working expenses at the Compressor Station, where the coal consumption is now almost equal to the combined consumption at the two Pumping Stations.

184. The combined number of revolutions run by Nos. 1 and 2 (large) compressor engines during the year was 40,791,437. The revolutions of Nos. 3 and 4 (small) engines amounted to 59,905,909 during the same period. The previous year's totals were 31,329,130 and 60,441,040 respectively. The small engines are half the capacity of the large, so that the net increase in revolutions during the year, on the basis of a large engine, as compared with the previous year was 9,184,741. This increase added to the increase of 14,216,312 revolutions in the previous year shows that the work at this station has increased by 50 per cent. during the past two years.

185. The following is a comparative statement for three years of the approximate total quantity of sewage lifted by the ejectors worked from the station :—

Ejector Station.	Quantity of sewage lifted in gallons.		
	1914-15.	1915-16.	1916-17.
No. 1 Fergusson District, DeLisle Road.	431,937,000	399,864,000	397,537,000
No. 2 do. Arthur Road ...	539,203,600	457,680,000	492,608,400
No. 1 Parel District, Elphinstone Road.	201,348,000	227,901,000	229,096,000
No. 2 do. Chinchpokli Road ...	165,055,000	149,436,000	182,247,000
No. 3 do. Sewri Road ...	53,009,400	33,751,200	63,214,800
No. 1 Mazagon District, Church Street.	158,760,000	161,185,200	212,920,800
No. 2 do. Tank Bunder.	39,931,000	99,584,600	135,363,900
No. 1 Agripada District ...	45,218,400	50,650,350	60,373,650
No. 2 do. ...			
No. 1 Malabar Hill District, Warden Road.	71,940,750	75,913,250	84,892,750
No. 2 do. do. Nepean Sea Road.	24,408,300	21,436,000	29,961,000
No. 3 do. do. Gamdevi Road.	31,994,400	29,909,600	44,434,800
No. 1 Elphinstone District, Frere Road.	9,131,250	66,206,250	94,071,750
Total Gallons...	1,771,937,100	1,773,517,450	2,026,721,850

186. The total for the year under report shows a large increase over the totals of the previous years. The principal increases have taken place at Tank Bunder, Gamdevi Road and Frere Road Ejectors.

187. The following shows the total quantity of coal of different descriptions consumed during the year with their average rates per ton :—

Description of coal.	Tons.	Average rate.		
		Rs.	a.	p.
Bhalgora rubble	2,608½	15	10	9·6
Sejooah rubble	168½ ⁹ / ₁₀	15	9	1·7
Ramnagore steam	252½	15	14	10
Desharghur steam	155½	22	0	0
Jogta steam... ..	118½ ³ / ₄	17	9	2·1
Several mixed descriptions purchased locally	1,032½	28	3	3·5

188. The average rate per ton for all these descriptions of coal was Rs. 18-15-2 per ton as against Rs. 16-9-8·7 in the previous year and the average daily consumption was 11 tons, 17 cwts., 2 qrs. and 12 lbs. against 10 tons, 13 cwts. and 23 lbs. in 1915-16. In consequence of the increased consumption and the high rates payable for the coal purchased locally the grant had to be supplemented by a transfer of Rs. 6,500 from savings in fuel grant for the Pumping Stations and an additional grant of Rs. 10,000 from Surplus Cash Balance, *vide* the Standing Committee's Resolution No. 7545 of the 2nd March 1917.

189. The low pressure cylinder cover of No. 2 engine was broken on the 3rd June 1916, owing to the piston nut guard ring falling out of place and a new cover was made in replacement at the Municipal Workshops. There was also a collapse of the brickwork division wall common to Nos. 1 and 2 boilers on the 19th October 1916, which threatened a serious stoppage as it was not possible to effect any repairs without laying off both boilers. Steps were at once taken to make a temporary steam pipe connection from the engines to two boilers in No. 2 Pumping Station, which was completed on the 10th of the following month and thereafter Nos. 1 and 2 boilers were stopped for repairs. Much of the brickwork of both internal and external walls was found to be in a bad state and the opportunity was taken to renew the whole of it. The work was completed and the boilers restarted on the 17th February 1917.

190. The renewal of the worn 8" steel sealed sewage main in Warden Road between the Mahaluxmi Battery and Pedder Road with a cast iron main 12 inches diameter, which was in hand by the Drainage Department at the close of the previous year was completed before the break of the monsoon. The same Department in November 1916 commenced the renewal of the worn 15 inch cast iron sealed sewage main in Fergusson Road and the booked expenditure on the work upto the close of the year against the Budget Grant of Rs. 25,000 was Rs. 11,508-10-2.

The Colaba Compressor Station.

191. The machinery of the Compressor Station and the five Ejector Stations served therefrom worked satisfactorily during the year and the complaints previously received during the monsoon period of a surcharge in the sewers of No. 4 District were in a great measure obviated by laying a 12-inch storm water overflow from the sewer into the sea near Pilot Bunder. This work was carried out by the Drainage Department at an estimated cost of Rs. 6,430, *vide* the sanction contained under Corporation Resolution No. 2003 of the 26th June 1916.

192. The total quantity of sewage lifted during the year amounted approximately to 618 million gallons against 527½ million gallons in 1915-16. The total number of revolutions run by the engines during the same period was 60,742,962 against 55,802,202 in the previous year. This heavy increase was partly due to the late cessation of the rains, but principally to the increased water supply.

193. The total number of units of electrical energy consumed during the year was 442,854 against 424,932 units in 1915-16. This increase in the consumption involved an excess of Rs. 2,318-6-9 in the grant for electric power which was met by transfer.

194. It was necessary to use the steam driven compressor engine for an aggregate period of 208 hours and 10 minutes during the year under the following circumstances :—

- (a) Between the 4th and 7th April for the general overhaul of the motor of B engine, (b) between the 13th and 15th of the same month for the general overhaul of the motor of A engine, (c) between the 29th May and 3rd June on account of a short circuit in the motor armature of B engine which necessitated its removal for repairs and the substitution of the spare armature and (d) on the 16th January for a short circuit in the connections of A engine motor.

195. Nos. 4 and 5 ejector stations were out of action between the 14th and 22nd January 1917 on account of a choke in the 3-inch air main on Colaba Road leading thereto and the main had to be cut in several places between the Sassoon Dock railway crossing and the Afghan Memorial Church before it was located. It was eventually found opposite the Government Telegraph Office and was due to a piece of road metal and a quantity of rust flashes off the internal surfaces of the pipe.

196. In consequence of complaints of smell from the exhaust vent shaft of No. 3 Ejector Station attached to the tower of the Colaba Railway Station, a new 6-inch cast iron exhaust pipe was laid from the station to the foot of the disused chimney shaft of the old Prince of Wales Press at Victoria Bunder under arrangements with the owner, Miss H. F. Petit. The work was carried out by the Drainage Department and was completed and connected up to the ejectors on the 31st January 1917 at an estimated cost of Rs. 3,056, *vide* Corporation Resolution No. 3103 of the 14th August 1916.

197. There were 6 interruptions in the electric supply to the station during the year being 2 less than in the previous year. The maximum duration of an interruption was 2 hours and 50 minutes on the 4th July 1916 and the average duration was 1 hour and 9 minutes. None of these stoppages necessitated the use of the reserve steam plant.

Storm Water Sluices.

198. The question of improving the arrangements for the discharge of storm water by the installation of large capacity low lift pumps was kept in abeyance during the year on account of the War.

199. The oil engine and pump at the Worli sluice gates continued to work satisfactorily during the fair season and prevented much of the flooding of the low-lying areas adjacent to the channel which formerly took place during neap tides.

200. During the monsoon a large quantity of stone and debris was washed up on the north bank of the Love Grove storm-water channel near the gates forming a bar which threatened to block the channel. The further extension to sea of the outfall sewer appeared to be the cause of this deposit and it was under process of removal by the Outfall Staff at the close of the year. It is intended before the next monsoon to put in a temporary concrete block wall near the mouth of the channel to break the force of the waves and prevent any further obstruction.

201. The new bye-pass into the sea from the left hand barrel of the outfall sewer also caused a very heavy deposit of silt and sludge to form in the channel on the sea side of the gates which gave rise to a considerable local nuisance. The deposit was too soft to be removed by hand and it will have to await the monsoon of 1917 to be swept out to sea by the flow of storm water. It is hoped that the removal of the bye-pass further out to sea with the progression of the outfall will prevent a repetition of the nuisance.

Inspection Motor Cars, 1916-17.

202. The mileage run by Motor Cars Nos. 1674, 1675, 1676 and 2126 for the respective use of the Health Officer, the Deputy Executive Engineer, Drainage, the Executive Engineer and the Deputy Executive Engineer, Mechanical Branch, and by the Supernumerary car No. 2276 was as follows :—

No.	1674	...	...	...	...	5,451 miles.
"	1675	...	...	...	...	3,741 "
"	1676	...	...	...	...	7,656 "
"	2126	...	...	...	...	6,002 "
"	2276	...	...	...	...	3,840 "
Total						26,690 miles.

The above total shows a decrease of 668 miles on the total for the previous year. This was principally due to the reduced mileage of car No. 1674 which was laid up from May to August 1916 for overhaul, renewal of the upholstery and leather hood by the French Motor Car and Electric Company at a cost of Rs. 1,194.

203. The cost of maintenance, inclusive of establishment upto the close of the year, was Rs. 9,225-9-7 which is equal to an average running cost of 5.53 annas per mile as compared with 5.19 annas per mile in the year 1915-16.

204. The motor car No. 2276 originally purchased for the Temporary Senior Assistant engaged on the Tansa Main Duplication Works has been retained as supernumerary car, *vide* Corporation Resolution No. 7021 of 8th February 1917

OPEN SPACES.**Existing open spaces.**

205. The following is a statement of the existing open spaces in the City belonging to the Municipality :—

	Area in square yards.
A WARD.	
1. Junction of Bazar Gate Street and Mint Road— Acquired for a Fire Brigade Station. At present being used as a Road Department Depot	1,912-00
2. King Lane (between houses Nos. 255-257 and 263-265)— Used as a Road Department Depot	73-00
3. Two plots at Bhoiwar Lane near Cawasji Patel Street junction— Acquired for extending the road. Now vacant	33-30
4. Plot in front of Custom House Road— Partly occupied by a Police Chauki, urinal and stand-post and partly used as a Road Department Depot	2,813-00
5. Junction of Cruickshank Road and Council Road— Acquired for Municipal Office extensions; part leased to the Skating Rink and part vacant, being used by the Indian Defence Force ...	3,612-00
6. Colaba Causeway, opposite Arthur Bunder— Partly used as a Road Department Depot and partly vacant	840-00
7. Ghoga Street near Cawasji Patel Street junction— Used as a Road Department Depot	504-95
8. Homji Street, near Store Lane junction near Shipping Office— Used as a Road Department Depot	150-00
9. Open space near Gun Carriage— Partly used by Health Department for temporary sheds and night-soil depot, and partly vacant	5,142-00
10. Ormiston Street behind Bombay Electric Supply and Tramways Company's premises— Used partly as a Road Department Depot and partly for Motor Garage...	3,500-60
11. 2nd Pasta Lane, West end— Partly occupied by latrines and partly vacant	237-59
12. Victoria Square— Originally known as Bhattia Baug	4,406-00
13. Elphinstone Circle Garden	12,024-00
B WARD.	
14. Musjid Station below Musjid Bridge, South— Used as a Road Department Depot	849-00
15. Mazagon Road near Valpakhadi, below Hancock Bridge— Vacant land (enclosed by the bridge and the 48" new water main laid from the Bhandarwada Reservoir)	405-00
16. Piru Lane— Acquired for widening Piru Lane, now leased for temporary sheds ...	2,603-00
17. 1st Umerkhady Row— Purchased for the extension of the Row. Now vacant	113-00
18. 2nd Umerkhady Row— Land left after making the road. Now vacant	44-30
19. Junction of Wari Bunder Road and Mazagon Road, below Hancock Bridge— Used as a Road Department Depot	1,041-90
C WARD.	
20. Junction of Abdul Rehman Street and Agiary Cross Lane— Land left after widening the road. Proposed to be let on a short lease. Now vacant	735-00
21. Junction of Chandanwadi and Princess Street— Used as a Road Department Depot	1,536-83

	Area in square yards.
22. Cavel Street, junction with Girgaum Road— Used as a Road Department Depot	253·00
23. Cavel Street, junction with Girgaum Road near Fire-wood Depot— Reserved for building a combined water-closet and urinal. Now vacant.	116·50
24. Duncan Road, near tram pole No. 40F— Used as a Road Department Depot	163·00
25. Hamalwadi (near the Water Works Chowki) East of Wadia's Agiary— Used as a Road Department Depot	103·90
26. Hamalwadi, junction with Trinity Street— Used as a Road Department Depot	253·27
27. Hamalwadi, central portion between Girgaum Road and Trinity Street— Proposed to be thrown in the roadway. Now vacant	638·00
28. Mumbadevi Road, East of Drinking Fountain— Partly used as a Road Department Depot and partly for dumping kutchra	377·43
29. Princess Street junction with Queen's Road, South of Hindu Burning Ground— Used as a Road Department Depot	276·00
30. Queen's Road junction with Princess Street and West of Mogul Burial Ground— Used as a Road Department Depot	963·00
31. Northbrook Gardens	13,827·00

D WARD.

32. Arthur Road, West of B. B. & C. I. Railway line from level-crossing South- wards to near the culvert over the old main drain— Occupied by temporary halalkhore huts	17,978·00
33. Arthur Road, near culvert over old main drain— Used as a Road Department Depot	976·00
34. Bellasis Bridge low-level road, North— Used for storing drainage pipes	9,260·00
35. Clerk Road, South, near Tardeo Road Junction— Used as a Road Department Depot	6,666·00
36. Dammer Lane, South of archway of Kennedy Bridge— Used as a Road Department Depot	484·00
37. Little Gibbs Road, South-West of Malabar Hill Reservoir— Used as a Road Department Depot	2,809·00
38. Nepean Sea Road, opposite Mount Nepean Road— Partly used as a Road Department Depot and partly occupied by Police Chowki	301·00
39. Junction of Nepean Sea Road and Narayen Dabholkar Road— Partly occupied by a Road Department Depot and partly by a Police Chowki	656·00
40. Queen's Road opposite Charni Road Station— Used as a Road Department Depot	364·00
41. Tardeo Flats bounded on the North by Clerk Road, on the West by the main drain and approach road, on the East partly by the property of the B. B. & C. I. Railway and Municipal land and on the South by private properties— Small areas occupied by halalkhore huts, cattle hospital, trip marker's chowki, kutchra siding platform and the rest is vacant	1,20,355·00
42. Hanging Gardens at Malabar Hill	55,648·67
43. Bandstand at Chowpatti	1,772·00
43A. 50 feet of land on either side of the old main drain from Bellasis Road to Clerk Road	39,727·00

E WARD.

44. Annesly Road junction with Lamington Road— The low-lying ground is being filled in with road scrapings and is pro- posed to be occupied by Health Department stables. At present used for stacking road materials	10,094·00
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	Area in square yards.
45. Junction of Arthur Road and DeLisle Road, North of the Hospital— Used for storing plague camp stores and for temporary health camps, &c.	32,554-00
46. Bapty Road Junction with Trimbak Parashram Street— Occupied by semi-permanent huts and milch cattle stables and proposed site for the erection of incinerators and beggaries' chawls	8,720-00
47. Bellasis Road (North of the bridge and East of the B. B. & C. I. Railway)— Acquired in connection with surface drainage works and leased to a private party	1,631-00
48. Junction of Clerk Road and Parel Road— Used as a Road Department Depot	1,115-00
49. Junction of Clerk Road and Parel Road, near Garden Bridge— Used as a Road Department Depot	706-00
50. Duncan Road Cross Lane— Used as a Road Department Depot	395-78
51. DeLisle Road at its junction with Haines Road— Partly used as a Road Department Depot and partly for stabling carts ..	519-00
52. Junction of DeLisle Road and Clerk Road— Partly used as a Road Department Depot and partly stabling carts ...	516-00
53. DeLisle Road North of Sheep Market and near its junction with Arthur Road— Used as a Road Department Depot	636-00
54. Duncan Road (Old site of Fire Brigade Station)— Used as a Road Department Depot	61-33
55. Junction of Foras Road and Falkland Road (North side)— Used as a Road Department Depot. A part being reserved as a lawn. Area of Police chowki is excluded	1,059-00
56. Junction of Foras Road and Falkland Road (South side)— Used as a Road Department Depot. Area of the fountain excluded ...	1,167-00
57. Kamathipura 7th and 8th Streets— Acquired for Health Department chawls, now leased as a Firewood Depot	180-00
58. Lamington Road on the West and North of Gilder Lane— Formerly a water course; at present a portion is leased as Firewood Depot and the rest is lying vacant	2,666-00
59. Lamington Road, East (near Junction with Gilder Lane)— Formerly a water course; now being filled in	2,450-00
60. Mount Road, Angirwadi— Acquired for the extension of Mahomedan Burial ground; now let for cultivating grass	4,155-60
61. Junction of 2nd Peerkhan Street and 1st Peerkhan Street— Used as a recreation ground. Received from City Improvement Trust...	2,819-00
62. Junction of 2nd Peerkhan Street and 1st Peerkhan Street— Used as a Road Department Depot. This has been taken on lease from City Improvement Trust	1,150-00
63. Junction of Reay Road and Dockyard Road— Acquired for erecting disinfecting stables of the Health Department at present used as a Road Department Depot	500-00
64. Junction of Reay Road and Coppersmith Street— Will be absorbed in Reay Road when widened to 90 feet; at present used as a Road Department Depot	157-00
65. Junction of Reay Road and Gunpowder Road— Used as a Road Department Depot	796-00
66. Junction of Reay Road and D'Lima Street, South of N. S. Rozorio Church— Used as a Road Department Depot	170-00
67. Sankli Street, near junction with Clare Road— In the compound of B Ward Offices; used as a Road Department Depot.	2,617-00
68. Stable Street near Kamathipura 10th Street— Used for stacking Health Department carts... ..	325-00

	Area in square yards.
69. Bhandarwada Reservoir Gardens	9,600-00
70. Victoria Gardens, Parel Road	2,15,552-00
71. Dick's Tank Garden, Parel Road, adjoining J. J. Hospital	2,740-00
72. Foras Road Garden, Junction of Foras Road and Falkland Road	3,005-00
F WARD.	
73. Arthur Road, near the Bridge footpath— Used as a Road Department Depot	305-00
74. Arthur Road, near Bridge Arch, West side— Used as a Road Department Depot	134-00
75. Tulsirampada, Arthur Road, North side— Used as a Road Department Depot	505-00
76. Bhoiwada Cross Road, South side, near City Improvement Trust Chawl— Used as a Road Department Depot	684-00
77. Elphinstone Road Compound, North low-level road, near Church— Used as a Road Department Depot	747-00
78. Elphinstone Road, near Market— Used as a Road Department Depot	800-00
79. Government House, Parel, compound, plot No. I— Acquired for the King Edward Memorial Hospital and now let for cul- tivation purposes	22,563-00
80. Government House, Parel, compound, plot No. II— Acquired for the King Edward Memorial Hospital and now let for cul- tivation purposes	12,138-00
81. Sewri, behind McKenzie Saw Mills— Used as a Road Department Depot	16,555-00
82. Sewri Cross Road, near Tulsi Building— Used as a Road Department Depot	1,391-00
83. Sion Road, near Sluice House— Used as a Road Department Depot	610-00
G WARD.	
84. Cleveland Road— Vacant land near and on the West of Dr. Batliwala's Laboratory... ..	1,600-00
85. Do. do. do.	1,956-00
86. Do. do. do.	1,356-00
87. Church do. opposite	562-00
88. Cleveland Road Junction with Worli Road— Vacant land on the West of Low-Level Channel No. I	2,022-00
89. Dadar-Kumbharwada Oart, near Khed Tank— Partly occupied by a small building (which yields rent) and partly vacant land leased for gathering fruits and tapping trees. Acquired for road purposes	3,503-59
90. Dadar-Kumbharwada Oart, near Khed Tank— Vacant land now leased for gathering fruits and tapping trees. Ac- quired for road purposes	17,280-00
91. Dharavi Road, near Sion Station, G. I. P. Railway— Government land leased to the Municipality for purposes of reclamation only	22,893-00
92. Do. do. do.	6,638-00
93. Do. do. do.	3,588-00
94. Dharavi Road, near Sion Station, G. I. P. Railway, on the East of Boot Factory belonging to Adamji Peerbhoy— Government land leased to the Municipality for purposes of reclamation only.	35,470-00

	Area in square yard.
95. North and South of Fergusson Road and on the East of Junction with Low-Level Channel No. 1— Used as a Road Department Depot	4,183-00
96. Hornby Vellard Road, South-East of Love Grove Sluices— Vacant	3,376-00
97. Haines Road (B. B. & C. I. Railway Level Crossing)— Leased to dhobies as drying ground by the Health Department	1,50,000-00
98. Hornby Vellard Road Junction with Clerk Road— Storm-water reservoir now lying vacant and being filled in by Health Department with kutchra and earth	1,11,665-00
99. Haines Road, on the West side of Junction with Tulsi Pipe Line— Partly used as Christian Cemetery, and partly vacant, and is leased for cultivation by Health Department	25,975-00
100. Lady Jamsetji Road, East side, on the South of Hasali Tank— Used as a Road Department Depot	254-00
101. Mahim Bazar Road, on the East of Chandanwadi Cemetery— Acquired for extension of the Chandanwadi Cemetery, partly occupied by a small building which is used as a chowki and the remainder is leased for gathering fruits	8,494-00
102. Old Parbhadevi Road on the Sea side— Vacant. Was used as a Hindoo Burial Ground	{ 2,606-67 7,714-00
103. Worli Road, Sambhoo Mahadev Pakhadi— Partly occupied by latrines and partly vacant and is in charge of Health Department and is leased for tapping date trees	212-15
104. Worli Sluice Road, on the North of Old Sluice— Vacant and leased for grazing	5,23,00,000-00
105. Worli Sluice Road on the South of Old Sluice— Vacant	17,280-00
106. Worli Road (Sethna Villa)— Partly occupied by bungalow and partly vacant. Recently acquired from Mr. Sethna for the quarters of the Pumping Station Staff	27,991-66
107. Worli Road (Sethna Villa)— Ditto ditto ditto	471-00
108. Worli Road (Sethna Villa)— Vacant	840-00
109. Do. do.	815-6/9
110. Do. do.	507-00
111. Worli Sluice Road Junction, Old Purbhadevi Road— Land acquired from Government for filling in. Now given out for cultivation by Health Department	80,013-00
112. Worli Road— Vacant land on the West of Worli Channel at its Junction with Channel No. 2	894-00
113. Worli-Koliwada Road— Vacant land between Junction, Cleveland Road and Worli-Koliwada Road	2,100-00
114. Worli-Koliwada Road— Vacant on the East of Junction with Cleveland Road	2,111-00
115. Worli-Koliwada Road— Vacant land on the East of Worli-Koliwada Road	2,261-00
116. Worli Road— Vacant land on the West of Low-Level Channel No. 1 near its Junction with Low-Level Channel No. 2	5,467-00
Total ...	5,35,34,134-48 square yards or 11,060-77 acres.

Open spaces created by the filling in of tanks, wells, &c.

206. The following is a statement showing open spaces that have been or will be created by the filling in of tanks, wells, &c., as sanctioned by the Corporation from time to time:—

	Area in square yards.
A WARD.	
1. Nakhoda Tank— Proposed to be filled in	6,253 00
B WARD.	
2. Babula Tank— The reclamation partly used as a Road Department Depot, partly occupied by hahalkhores' huts, partly by Road beggaries' chawls and partly by Contractors' stable... ..	18,967 00
C WARD.	
3. Cawasji Patel Tank— Reclamation made into a garden	921 55
4. Framji Kavasji Tank— Reclaimed Framji Kavasji Tank. This land has been reserved for Framji Kavasji Institute and Garden /	1,479 00
5. Girgaum Road near Nowroji Shet Street— Reclaimed well now used as a Road Department Depot	150 00
D WARD.	
6. Girgaum Back Road near "Anand Bhuwan"— Reclaimed well now used as a Road Department Depot	212 00
7. Gowalia Tank— Reclaimed and used as recreation ground	20,840 00
E WARD.	
8. Mustan Tank, Junction of Bellasis Road and Huzeria Street— Reclaimed. Partly used as a Road Department Depot and partly vacant.	4,597 00
9. Old Foras Tank at DeLisle Road, near Sheep and Goat Market— Reclaimed and leased for cultivation	11,235 00
10. Gilder Tank, Junction of Lamington Road and Foras Road— Reclaimed and used partly as Road Department Depot and partly as temporary health camp	8,865 00
11. Matharpakhadi Tank (Oart)— Reclaimed and used as recreation ground	978 00
12. Nanabhoy Tank, Nabob Tank Road— Reclaimed and used as a Road Department Depot	520 00
13. Fulmali Tank, Stable Street (Midway between 5th and 13th Kamatipura Streets)— Reclaimed; formerly occupied by temporary Health Department Stables. Now vacant	2,850 00
14. Khara Tank, Tank Street, between Bellasis Road and Grant Road— Reclaimed; used as gardens	2,332 00
15. Nawab Tank, Mazagon— Under reclamation	3,283 00
F WARD.	
16. Naigaum Tank, Naigaum Cross Road— Partly reclaimed	32,562 00
17. Futka Tank, Matunga— Not filled in. Is very close to the King's Circle formed by the Improve- ment Trust	3,499 00
18. Gowari Tank, Gowari Village— Not reclaimed	4,487 00
19. Satgar Tank, Sion Road— Not reclaimed	6,621 00
20. Buran Tank, Buran Tank Road— Not reclaimed	1,509 00
G WARD.	
21. Jambli Tank, Mahim Bazar Road— Used as a Road Department Depot	3,850 00
Total ...	1,35,570 55 square yards or 28 01 acres.

Open spaces proposed.

207. The following statement shows the open spaces proposed to be provided by the City Improvement Trust in Schemes V and VI, and also areas in Mahim, DeLisle Road and Love Lane suggested by this office for acquisition :—

Serial No.	Ward.	Description.	Area in acres.
		<i>Open spaces within the Mahim Scheme as proposed by the Executive Engineer.</i>	
1	G	Open space between the Seashore and Lady Jamshedji Road, including Jambli Tank and space surrounding it.	66
2	G	Dighee Tank at Upper Mahim Road ..	2.85
3	G	Open space to the east of Purbhadevi Road, including Saoli Tank and the space surrounding it	10.06
		<i>Open spaces to be acquired at Love Lane and at DeLisle Road.</i>	
4	E	Love Lane	4
5	G	DeLisle Road	6.42
			89.33
		<i>Open space to be provided by the City Improvement Trust in their Scheme Nos. V and VI.</i>	
		Scheme No. V, Matunga Scheme, as scored yellow on the plan	18
		Scheme No. VI, Sion Scheme, as scored yellow on the plan	34
			52

TRAMWAYS.

208. There were no extensions of tram tracks during the year. Small portions of the track at Foras Road and Bellasis Road Junction and at Byculia Bridge were renewed.

209. A length of about 400 feet of single track in a portion of Charni Road was converted into double track on the completion of the street widening.

210. The Corporation having under their Resolution No. 4313 of 7th October 1915 requested the Commissioner "to include in the Annual Report of the Municipality the number of tram cars running in the City classified according to the different types approved by the Corporation with the total carrying capacity of each car," the following information, obtained from the Bombay Electric Supply and Tramways Co., is given for the year under report :—

1. 50 bogie cars each carrying 52 persons sitting and, in addition, 8 standing during rush hours.
2. 50 bogie cars each carrying 20 persons standing and 44 persons sitting.
3. 49 single truck cars each carrying 32 passengers.
4. 1 single truck car carrying 40 persons sitting.
5. 30 trains each carrying 70 passengers.
6. 10 trains each carrying 78 passengers.

PUBLIC LIGHTING.

Gas Lighting.

211. The total number of gas lamps (burners) reported last year was 6,253. This was increased during the year by 270, making a total of 6,523 as detailed in the following statement:—

Wards.	Upright C. burner lamps. (1)					Inverted mantle lamps. (2)			Ukay or Bombay lamps. (3)					High pressure gas lamps. (4)										Experimental high pressure gas lamps. (6)					REMARKS.				
	Single lights.	Double lights.	Triple lights.	Quadruple lights.	Quintuple lights.	Single lights.	Double lights.	Triple lights.	Single lights.	Double lights.	Triple lights.	Quadruple lights.	1,500 C. P. lamps with two 300 C. P. burners to burn after midnight, at Chowpatty.	1,500 C. P. lamps with three 500 C. P. burners, one burning after midnight, at Walkeshwar.	1,500 C. P. lamps with one 500 C. P. burner to burn after midnight, Sandhurst Bridge.	3,000 C. P. lamps, Sandhurst Bridge.	500 C. P. lamps, Hughes Road.	300 C. P. lamps, Sandhurst Bridge.	100 C. P. lamps.	H. P. lamps at Flora Fountain.	1,800 C. P. lamps with six 300 C. P. burners, Fitzgerald Column.	Total No. of burners. (5)	3,000 C. P. lamps with three 1,000 C. P. burners, Hornby Road.	1,500 C. P. lamps with three 500 C. P. burners, Hornby Road.	1,000 C. P. lamps with two 500 C. P. burners, Lamington Road.	500 C. P. lamps, Abdul Rehman Street.	3 Lt. Inverted lamps, Falkland Road.	2 Lt. Inverted lamps, Falkland Road.		1 Lt. Inverted lamp, Walton Road.	Total No. of burners. (7)		
A	733	16	3	8	5	6	125	2	274	25	3	1	1	...	...	...	...	...	...	...	...	...	1,444	1	8	...	...	26	...	...	...	5	1,476
B	659	...	1	...	...	...	15	14	1	9	...	...	...	...	...	...	...	...	...	...	...	...	753	...	...	...	...	...	...	...	...	...	779
C	711	...	...	...	...	...	31	16	...	4	...	...	...	...	...	...	...	...	...	...	...	...	834	...	...	...	...	...	...	...	...	...	834
D	841	...	4	...	...	...	32	12	80	8	1	...	...	18	...	...	...	...	...	...	...	...	1,154	...	...	...	2	...	...	...	...	...	1,210
E	1,155	4	2	...	...	...	10	1	33	16	...	...	...	...	...	...	...	...	...	...	...	...	1,257	...	...	...	...	...	...	...	...	...	1,257
F	289	...	1	...	...	...	...	6	3	14	...	...	...	...	...	...	...	...	...	...	...	...	341	...	...	...	...	...	...	...	...	...	341
G	353	...	...	...	...	...	106	6	15	14	...	...	...	...	...	...	...	...	...	...	...	...	626	...	...	...	...	...	...	...	...	...	626
Total No. of burners.	4,741	40	33	32	25	14	638	171	406	180	12	4	6	...	...	...	...	...	...	...	...	...	6,409	3	24	...	22	28	13	20	5	6,523	

212. The total expenditure on gas lighting, including the charges in respect of high pressure gas lighting, for the year amounted to Rs. 4,36,692-0-2.

Kerosine Oil Lighting.

213. As in the preceding years, the kerosine oil lighting was carried out departmentally. The oil used was 125° Elephant Brand. The number of kerosine oil lamps in use was 1,189 as detailed below:—

Ward.	No. of lamps.	Remarks.
A		} Simla pattern burners.
B	161	
C	31	
D	89	
E	86	
F	473	
G	349	
Total ...	1,189	
No. of lamps in 1915-16...	1,344	

214. There was thus a reduction of 155 lamps due chiefly to replacement by gas lamps.

215. The total cost of kerosine oil lighting during the year amounted to Rs. 32,877-7-10. Deducting from this Rs. 70-9-0, being the amount recovered on account of departmental bills for lighting, health camps, &c., and (2) from private parties for breakage of lanterns, parts, &c., the nett cost amounted to Rs. 32,806-14-10, which gives a rate of Rs. 27-10-10 per lamp per annum as against a rate of Rs. 22-3-10 last year, the difference being due to the higher cost of oil and the fact that the reduction of 155 in the number of lamps took place nearly at the close of the year.

PRIVATE BUILDING CONSTRUCTION.

Buildings erected or altered.

216. The number of applications received under Section 337 for the erection of new buildings, and under Section 342 for alterations to existing buildings, during the year under report, as compared with those received during the preceding 4 years, is as follows:—

Year.	Under Section 337.	Under Section 342.	Total No. of buildings dealt with.	Total No. of applications.
1912-1913	1,132	1,079	2,211	3,618
1913-1914	1,175	947	2,122	3,528
1914-1915	880	1,068	1,948	3,558
1915-1916	930	1,124	2,054	3,461
1916-1917	1,252	877	2,129	3,286

217. It is frequently the case that two or more modified proposals are received in connection with one and the same building; hence the difference between the totals shown above.

218. The majority of the plans received were conditionally approved.

Set-backs.

219. The following is a comparative statement of the amounts expended on set-backs from 1900-1901 to 1916-1917:—

Year.	Paid from Capital.	Paid from Revenue.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1900-1901 ... ..	.....	1,05,008 14 11	1,05,008 14 11
1901-1902 ... ..	.....	1,27,430 1 8	1,27,430 1 8
1902-1903 ... ..	.....	82,189 14 9	82,189 14 9
1903-1904 ... ..	.....	1,12,128 7 5	1,12,128 7 5
1904-1905 ... ..	.....	1,48,751 15 5	1,48,751 15 5
1905-1906	79,786 0 2	1,57,747 15 7	2,37,483 15 9
1906-1907	1,90,118 7 11	1,18,347 2 8	3,08,465 10 7
1907-1908	1,53,791 11 10	1,00,000 0 0	2,53,791 11 10
1908-1909	3,98,183 1 5	1,00,000 0 0	4,98,183 1 5
1909-1910	2,92,501 2 2	1,00,000 0 0	3,92,501 2 2
1910-1911	1,54,672 1 10	1,00,000 0 0	2,54,672 1 10
1911-1912	2,41,054 1 2	1,11,313 0 0	3,52,367 1 2
1912-1913	2,10,729 9 1	1,14,894 0 0	3,25,623 9 1
1913-1914	2,21,745 13 7	1,01,663 1 9	3,23,408 15 4
1914-1915	4,34,918 10 5	1,09,199 10 1	5,44,118 4 6
1915-1916	* 6,03,819 0 4	1,05,684 8 1	7,09,503 8 5
1916-1917	96,173 3 11	1,22,699 8 2	2,18,872 12 1

220. The liability outstanding for land sanctioned to be acquired for set-backs amounted to Rs. 3,64,424-7-10.

Enforcement of Building Regulations.

221. 602 summonses were issued against house-owners under the various Streets and Building Sections of the Municipal Act, with the results shown in the following statement:—

Section of the Municipal Act.	Number of prosecutions.	Number of cases withdrawn on compliance with requirements.	Number of cases in which parties were warned and discharged.	Number of convictions.	Number of postponements falling during the year 1917-18.	Fines.
						Rs. a. p.
231	4	2	2	....	....	....
250 (1) (a)	1	....	....	1	....	25 0 0
297 (a)	10	5	2	2	1	7 0 0
305	42	....	....	....	42	....
308	25	4	9	8	4	118 0 0
309 (1)	1	1	....	....	....	....
311	4	....	2	....	2	....
322	67	40	14	6	7	152 0 0
329	2	....	1	1	....	20 0 0
347	189	65	55	49	20	633 8 0
349	2	....	....	1	1	8 0 0
349B	1	....	....	1	....	3 0 0
349D	2	....	2	....	....	....
353	29	8	8	11	2	148 0 0
353A	95	20	9	50	16	817 0 0
354	116	33	35	38	10	738 0 0
378	1	....	....	1	....	10 0 0
By-law No. 40	11	2	2	3	4	46 0 0
	602	180	141	172	109	2,725 8 0

* This is inclusive of a sum of Rs. 3,57,682-2-3 on account of the unadjusted charges for 1915-1916 and previous years.

222. Twenty-one notices were issued under Section 378 of the Municipal Act for the improvement of insanitary buildings. In ten cases the owners complied, and the remaining eleven cases were pending at the close of the year.

223. As regards the five cases which were pending at the close of the previous year, in one case the owner pulled down the building, in another a fresh notice was issued, in the third the building was improved, in the fourth the requirements are being carried out and in the fifth time has been granted to carry out the necessary work.

224. Out of 376 notices issued for the removal of unsafe buildings, 319 were complied with. In 1 case the structure was removed by the Municipality. The remaining 56 cases were pending at the close of the year.

225. Twenty-five buildings or parts of buildings fell during the year. In 18 cases no injury was done, but in the remaining 7 cases, 17 persons were injured and 7 killed.

226. Action was taken under Section 349 of the Municipal Act for the summary removal of 166 inflammable and insanitary huts, 126 of which were removed, 9 were allowed to be retained while the remaining 31 cases were pending at the close of the year.

227. Applications were made to the Standing Committee for the removal of unauthorised work in 13 cases, in 12 of which permission was granted and in 10 of the latter the work was pulled down. The remaining 3 cases were pending at the close of the year.

DISPOSAL OF TOWN SWEEPINGS.

228. The road leading to the skinning ground at Kurla was levelled and metalled departmentally at a cost of about Rs. 2,369.

229. The additional area reclaimed during the year was about 8 acres, bringing the total to 184 acres, leaving a balance of 639 acres to be reclaimed.

230. The right of cultivating the reclaimed land was sold this year for the same amount as in the last year, viz., Rs. 5,000 and that of fishing in the Khajan land at Rs. 400 against Rs. 450 realized last year.

231. There was no railway accident during the year. There were two fires on the kutchra reclamation, one on 14th April 1916 and the other on 13th March 1917, but in neither case was there any loss to Municipal property.

232. Only one kutchra train was running throughout the year.

233. There was no epidemic during the year. There were five infant deaths in the camp of about 250 men.

234. A free school within the camp has been conducted by the Depressed Classes Mission, Bombay, for the last 10 years and is well attended.

PLAGUE MEASURES.

235. The following camps were erected on Municipal land at a cost of Rs. 3,120, and were provided with latrines, water-supply and lighting arrangements at Municipal expense :—

	No. of Rooms.
1. Babula Tank	40
2. Gilder Tank	75
3. Mahim Garden	50
4. Parel Government House	30
Total number of rooms ...	<u>195</u>

236. The health camps which existed at the undermentioned places in the previous years were maintained at Municipal expense during the year under report :—

On Municipal land—

	No. of Rooms.
1. Northbrook Garden	13
2. Mahim Station	30
3. Arthur Road	72
4. Chinchpokli	100

On Government land at—

2nd Koli Lane, Colaba	20
Total number of rooms ...	<u>233</u>

237. The total cost of maintaining these camps amounted to Rs. 2,785.

MISCELLANEOUS WORKS.

Love Grove Sewerage Outfall Works.

238. During the past year the construction of the new outfall was proceeded with as circumstances permitted; 400 lin. feet being constructed. This makes a total length of the twin-barrel steel-pipe section, constructed to date of 525 lin. feet and carries the outfall to a distance of 1,567 lin. feet from the Engine House.

239. The lack of a suitable machine through the loss of the Walking Gantry, which was formerly responsible for the slow progress made, has now been got over. The new machine, to take the place of the Walking Gantry, arrived from England in October last, and after being heightened to suit the work, was erected by the end of December and brought into operation in January. Since then the crane has been constantly employed and good progress is being made.

240. In addition to the outfall actually constructed, sufficient pipes have been built to extend the outfall 275 feet and sufficient concrete blocks made to carry the work forward 600 lin. feet.

241. A branch outfall was laid to enable work on the main outfall to go on without interference from the flow of the sewage.

242. The piles of the bridge carrying the Tansa main over Bandra creek were examined and reported on by this Department for the Water Department. The special main sewer connecting at the junction of Falkland Road, and Lamington Road consisting of six feet diameter steel pipes was undertaken for the Drainage Department.

Revision of Set-back Lines.

243. This work was commenced in June 1913, and was continued during the year.

244. Proposals were submitted for changing the regular lines of the following streets:—

Fergusson Road passage from Fergusson Road to Tulsi Pipe Line, New Hanuman Lane from Kalbadevi Eastward, Parel Road, Bhendi Bazar from Ghoghari Moholla to Masjid Street to Pinjrapole Road.

Queen's Road near the Marine Lines Station from 1st Marine Street to Princess Street.

Bhuleshwar from Cathedral Street to 3rd Bhoiwada.

• Cross Street between Abdul Rehman Street and Dhanji Street.

Girgaum Back Road from Kakadwadi to Sadashiv Street.

Portuguese Church Road between Portuguese Tank and Lady Jamsedji Road.

Bhuleshwar Road from Phopalwady to Bhuleshwar Tank.

Junction of Bazar Gate Street and Fort Street.

245. Regular lines were proposed along Little Gibbs Road and Parel Tank Road and from Lady Jamsedji Road to Mahim Fort.

246. A scheme for widening Grant Road to 100 feet was submitted together with estimates.

247. Large scale plans of the development lines of Mahim District which were taken in hand were nearly completed.

248. A new and comprehensive register of set-backs was started during the year.

249. Regular lines of streets are marked on in the New Survey Sheets as they are received from the Survey Officer.

Floor Area of Tenements.

250. During the year under report 1,102 buildings were surveyed with a view to registering their floor area. This brings the total number of buildings surveyed since the commencement of this work in the year 1914 to 3,345. The result of the last year's survey is as shown in the following statement:—

Statement showing the increase or decrease in the class and floor area of tenements in new and altered buildings completed in the year 1916-17 :—

Ward.	DESCRIPTION.	Shops.			Godowns.			Residences.						Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Shops.			Godowns.			One room Tenement.			Two rooms Tenement.			Larger Tenement.			Servants' Quarters.		Year 1916-17.		Year 1915-16.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		No.	Floor area.	sq. yd.	No.	Floor area.	sq. yd.	No.	Floor area.	sq. yd.	No.	Floor area.	sq. yd.	No.	Floor area.	sq. yd.	No.	Floor area.	No.	Floor area.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
A	Total floor area of buildings "after" they are altered or newly built do.	12	458	54	12,861	130	2,500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</

[illegible]

Revision of the Municipal Properties List.

251. The work consists of investigating the titles of properties, the dates of their acquisition or construction, the remeasuring of their areas, the ascertaining of their original and present values and the preparation of relative plans. A record of the information thus collected is kept, and the plans of the properties are drawn and preserved in separate volumes.

252. The year under report was mainly occupied in revising the list of E Ward.

Hanging Gardens at Malabar Hill.

253. The laying out of a further portion of the eastern slopes of Malabar Hill as a terraced garden was carried out during the year. The popularity of this garden continues undiminished.

254. The expenditure incurred on the work during the year amounted to Rs. 7,846-4-0.

Improvement of the Falkland Road Garden.

255. The Corporation having under their Resolution No. 4311 of 9th October 1916 voted a grant of Rs. 4,036 for the conversion of the Falkland Road Garden into a play ground for children, the work was taken in hand in January 1917 and was in progress at the close of the year. The expenditure incurred upto the close of the year was Rs. 201-7-10.

Filling in of Nawab Tank.

256. A grant of Rs. 10,788 was sanctioned under Corporation Resolution No. 1720 of 15th June 1917 for the filling in of Nawab Tank. The work was given on contract and was commenced in February 1917.

Street Refuges.

257. Two new street refuges were constructed, one at the junction of Lamington Road and Grant Road and the other at Lamington Road at a cost of Rs. 20-8-1.

Schemes.

258. The Corporation have sanctioned schemes for the acquisition of land with frontages at—

- (a) Dadar-Kumbharwada Road,
- (b) New road from Sewri to Parel Tank Road,
- (c) Widening of Sonapur Lane,
- (d) A through road from Worli Road to Mahim Bazar Road passing along Purbhadevi Road,
- (e) Land at Worli Hill, and
- (f) The improvement of Church Gate Street, Tamarind Lane and Armenian Lane.

259. (a) and (b) cannot be taken in hand owing to want of funds, (c) and (d) are in progress. The land required at Worli Hill for Engineers' quarters, &c., has been acquired.

260. Government have been requested to notify certain properties required for the improvement of Church Gate Street, &c., as also for widening a portion of Abdul Reheman Street and Masjid Bander Road.

GENERAL.**BILLS, VOUCHERS, &c., RECEIVED AND PASSED.**

261. Comparative statement of the number of bills, vouchers, &c., received, examined and passed during the five years from 1912-13 to 1916-17 :—

Description.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
Bills for Supplies, Works, &c.	21,631	22,126	23,656	13,833	16,390
Departmental Works Bills	3,310	3,595	3,677	2,879	3,141
Private Works Bills	2,687	3,023	3,023	3,437	3,226
Total	27,628	28,749	30,356	25,149	22,757

NOTICES, &c., ISSUED.

262. Comparative statement of the number of notices, &c., issued under the various sections of the Municipal Act during the five years from 1912-13 to 1916-17 :—

Section.	Description.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
Streets and Buildings.						
231	To provide rain water eaves, gutters and down-take pipes	487	245	157	135	104
299	Intimation to take possession of land outside building for street improvements... ..	158	92	190	104	80
305	To level, metal or pave, drain and light private streets	42	118	89	66	77
308	To remove new projections	369	649	481	578	333
308-309	To remove new projections as well as old ones ...	15	3	1	...	...
309 (1)	To remove or alter projections, &c., made before Bombay Act III of 1872 came into force ...	...	...	...	...	1
311	To remove or alter door, or gate, bar or window opening upon a street	11	14	7	5	26
313-B	To remove any board or shelf within a height of 12 feet from the surface of the street	5	4	9	1	3
329	To repair, project or enclose wells or dangerous places... ..	12	11	4	8	12
349	To remove inflammable materials in external walls and roof covering	186	190	141	130	167
349 (D)	To provide staircases to allow of safe exit in event of fire	...	...	...	...	2
351	To remove, alter or pull down structures erected without Municipal approval or to submit plans for the same	29	37	38	21	37
353	To alter buildings erected or to amend works done contrary to the provisions of the Municipal Act or Building Bye-laws	330	278	291	243	231
354	To pull down ruinous houses	523	450	446	344	397
354 A	To remove persons directing works unlawfully carried on	264	128	159	211	212
380	Removing and altering insanitary huts or sheds... ..	349	271	26	2	11
383	To cut and trim trees, shrubs and hedges... ..	5	2	8	...	...
	Carried over	3,335	2,492	1,997	1,348	1,693

Section.	Description.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
Streets and Buildings—continued.						
	Brought forward ..	3,335	2,492	1,997	1,848	1,693
392 (1)	To keep workshops factories, &c., in a sanitary condition	...	...	...	...	1
488	Intimation of intention to enter houses after 24 hours' notice	1,163	797	576	497	372
351 (2)	Intimation of intention to enter houses after 48 hours' notice... ..	10	2	8	5	10
298 (2)	Intimation of intention to take possession of land occupied by buildings, &c.	9	3	4	2	5
Bye-law 48	Infringement of the provisions of the Building Bye-laws	1	...	...	3	...
Section I of Government Notification No. P-223 of 10th February 1897.	To prohibit further use of building as a dwelling..	...	20	...	...	...
315	To remove projections made before Section 312 came into force	...	...	7	...	...
378	To improve insanitary buildings	...	...	6	9	21
373 (2)	To declare unimproved buildings unfit for human habitation	...	...	6	1	5
	Total ...	4,518	3,314	2,604	2,363	2,107
Drainage.						
222	For laying Municipal drains through or under lands belonging to private parties	11	1	1	1	...
230	To carry drains through land belonging to other persons	8	7	14	33	25
231	To drain undrained premises within a hundred feet of a Municipal drain	761	742	857	762	712
232	To drain undrained premises not within a hundred feet of a Municipal drain	51	20	12	9	11
238	To declare joint ownership of a drain	2	8	8	33	3
243	To raise vent pipes on the drain	19	10	32	27	63
244	To affix shafts or pipes for ventilation of drains, &c.	31	45	25	20	20
257	To renew, repair, &c., drainage of houses	975	1,210	1,642	1,376	1,385
258	To prohibit contraventions generally of the provisions of Chapter IX of the Municipal Act ...	...	...	2	...	...
...	Drainage of waste water from bleaching and dyeing works	...	...	...	...	...
260	To execute certain works without allowing option to persons concerned of executing the same ...	...	...	12	...	...
	Total ...	1,798	2,043	2,605	2,261	2,219

SUMMARY.

Departments.	1912-15.	1913-14.	1914-15.	1915-16.	1916-17.
Streets and Buildings	4,518	3,314	2,604	2,363	2,107
Drainage	1,798	2,043	2,605	2,261	2,219
Total ...	6,316	5,357	5,209	4,624	4,326

LETTERS, &c., RECEIVED AND DESPATCHED.

263. Comparative statement of the number of letters, references to Inspectors, &c. received and despatched during the five years from 1912-13 to 1916-17 :—

Departments.		1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
General and Streets and Buildings Branches..	{ Inward ...	1,64,472	1,73,275	1,54,189	1,00,915	94,223
	{ Outward...	1,69,458	1,78 873	1,51,277	99,125	92,766
Drainage Branch	{ Inward ...	54,119	61,398	62,012	63,654	55,815
	{ Outward...	36,113	38,936	39,501	33,713	33,690
Total ...		4,24,162	4,52,482	4,06,929	3,02,107	2,76,494

264. The following is a summary of clerical work done by the different Branches of the Department during the year :—

Consecutive No.	Description of Work.	General and Street and Buildings Branches.	Mechanical Branch.	Drainage Branch.	Total.
1	Letters, &c., received, including replies to references to Inspectors, &c. ...	94,223	5,332	55,815	1,55,370
2	Letters, &c., despatched, including references to Inspectors for report ...	92,766	7,578	33,690	1,34,034
3	Notices issued ...	2,107	.....	2,219	4,326
4	Summonses issued ...	602	.....	890	1,492
5	Contracts for annual and other supplies and for the construction of various works executed ...	36	.....	6	42
6	Leases of various rights sold ...	25	.....	.....	25
7	Vouchers received and passed ...	7,157	871	8,362	16,390
8	References made to Inspectors for certificates on vouchers... ..	2,703	.....	3,645	6,348
9	Reports and certificates received from the Inspectors, &c. ...	2,659	.....	3,645	6,304
10	Departmental and private works bills prepared or received, checked and passed ...	4,776	1,200	391	6,367
11	Workshops balance sheets prepared and forwarded ..	.....	12	.....	12
12	Requisitions prepared or received and forwarded ...	310	6,947	2,309	9,566
13	Measurement slips for metal, sand, rubble, &c., received and checked ...	1,659	.....	.....	1,659
14	Morning and material reports, diaries, &c., prepared or received and checked ...	5,840	.....	.....	5,840
15	Muster Rolls received and checked ...	579	.....	.....	579
16	Statements of wages, refund certificates prepared or received and passed ...	287	.....	.....	287

Consecutive No.	Description of Work.	General and Streets and Buildings Branches.	Mechanical Branch.	Drainage Branch.	Total.
17	Unclaimed wages, refund certificates prepared or received and passed	1,451	....	.....	1,451
18	Work abstracts for road repairs and maintenance ...	84	.....	.....	84
19	Work abstracts for road watering received and checked	84	.....	.. ...	84
20	Permits issued for projecting verandahs, balconies, rewas, weather-frames, &c.	53	.....	.....	53
21	Permits issued for erection of scaffolding	732	.....	.....	732
22	Permits issued for opening roads	484	.....	.....	484
23	Permits issued for temporary occupation of public streets on marriage and other ceremonies	715	.....	.....	715
24	Advice notes for sale of tender forms, rights of cutting grass, hire of steam-rollers, carts, ground-rent, sale of building forms under Sections 337 and 342, supplying copies of office records, &c., prepared and forwarded to the Chief Accountant	3,577	.....	83	3,660
25	Licenses issued to Plumbers	134	.....	.. ...	134
26	Licenses issued to Surveyors	62	.....	.....	62
27	Authorities issued to Plumbers for opening roads under tram lines ... ..	.....	.....	.....	.....
28	Orders issued for adding ground	25	.....	.....	25
29	Permits for building or rebuilding houses granted either conditionally or unconditionally	1,982	.....	.. ...	1,982
30	Claims for compensation for lands, &c., taken up for street improvement passed	57	.....	.....	57
31	Number of road slips prepared and checked ...	1,15,353	.....	.....	1,15,353

I have the honour to be,

Sir,

Your most obedient servant,

JAMES W MACKISON, B.Sc., M.Inst. C.E.,

Executive Engineer.

WATER WORKS.

REPORT OF THE HYDRAULIC ENGINEER.

Tansa Lake.

The total rainfall for the year measured near the outlet from the lake was 113.75 inches or 22 per cent. above the average for the preceding five years, the rainfall for the preceding five years being :—

69.23 inches in 1911.
88.26 „ 1912.
83.26 „ 1913.
132.80 „ 1914.
92.08 „ 1915.

Rain fell on 104 different days and exceeded 5 inches per day on 2 occasions, and on 39 days the rainfall ranged from 1 to 4 inches.

The lake commenced to overflow on 2nd August, when the rainfall amounted to 49.79 inches and continued to overflow until 6th October. The total quantity of water that passed over the waste weir was 43,000 million gallons.

The quantity of water delivered into the duct from the lake during the year was 14,461 million gallons, of which 12,938 million gallons were received in the City, the balance of 1,523 million gallons being partly discharged into the Vehar Lake and partly losses due to evaporation, overflow from syphon heads, and leakage along the duct.

The quantity of water lost from the lake through supply, evaporation, leakage and absorption between 1st April 1916 and 31st May 1916 was 3,512 million gallons and between 1st November 1916 and 31st March 1917 was 8,117 million gallons, making a total loss of 11,629 million gallons for 212 days or an average of 55 million gallons per day.

The loss of water by evaporation from the lake averaged during the dry months 0.24" per day equivalent to 20.5 million gallons per day, the observed monthly evaporation being as follows :—

April	1916	...	11.0 inches.
May	"	...	14.3 „
December	"	...	5.6 „
January	1917	...	3.2 „
February	"	...	3.3 „
March	"	...	6.7 „

The lowest depth to which the water in the lake was drawn was 403.48 feet above T.H.D., leaving 23.48 feet or 17,407 million gallons available for consumption above the level of the lowest outlet.

The total leakage along the duct between Tansa and Ghatkoper measured at the close of the year 1,575,000 gallons per day.

The following are the results of analyses made at different periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	REMARKS.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1916	9.0	0.8	Nil.	0.084	Nil.	No smell, clear water containing many brownish and greenish particles, much vegetable matter and clay.
July ,, ...	8.0	0.7	Nil.	0.134	Nil.	
October ,, ...	8.0	0.7	0.016	0.090	Nil.	
January 1917	6.0	0.4	Nil.	0.088	Nil.	Samples of January 1917 contained some water fleas.

Vehar Lake.

The total rainfall for the year was 99.38 inches or 18 per cent. above the average of the preceding five years, the rainfall for the preceding five years being—

60.27 inches in 1911.
 69.55 " " 1912.
 90.47 " " 1913.
 108.73 " " 1914.
 91.60 " " 1915.

Rain fell on 107 different days, and exceeded 7 inches on one occasion; and on 27 days the rainfall varied from 1 to 4 inches; the heaviest rainfall during the year was on 12th July, when 10.64 inches was recorded.

The Lake did not overflow during the year, the highest level attained being 255.50 feet above T.H.D. or 9 feet below the waste weir and 25 feet above the lowest outlet.

The total quantity of water received in the City during the year from the lake was 3,951 million gallons, or an average of 11 million gallons per day.

The lowest depth to which the water in the lake was drawn before the break of the monsoon of 1916 was 244.10 feet above T.H.D., leaving an available depth in the lake of 13.6 feet or 2,795 million gallons for further supply.

The following are the results of analyses made at different periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	REMARKS.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1916	9.0	0.8	Nil.	0.106	Nil.	No smell, clear water.
July ,, ...	10.0	0.8	Nil.	0.208	Nil.	Many green particles floating.
October ,, ...	9.0	0.8	Nil.	0.156	Nil.	Vegetable matter and clay.
January 1917	7.0	0.7	Nil.	0.11	Nil.	Samples of July and October contained some water fleas.

Tulsi Lake.

The total rainfall for the year at Tulsi was 92.35 inches or 3½ per cent. above the average for the preceding five years, the rainfall for the preceding five years being :—

70.35	inches	in 1911.
77.25	„	1912.
94.97	„	1913.
116.94	„	1914.
85.46	„	1915.

Rain fell on 109 different days and exceeded 5 inches per day on one occasion and on 36 days it ranged from 1 to 4 inches per day.

The Lake began to overflow on 21st September 1916 when the rainfall amounted to 84.16 inches and continued to overflow until 30th September. The total quantity of water that passed over the waste weir was 84 million gallons.

The total quantity of water lost from the lake by supply, evaporation, leakage and absorption, between 1st April and 31st May was 303 million gallons and between 1st November and 31st March 922 million gallons, making a total of 1,225 million gallons for 212 days or an average of 6 million gallons per day.

The total quantity of water received in the City was 1,260 million gallons or an average of 3.5 million gallons per day.

The lowest level to which the water in the lake was drawn before the break of the monsoon of 1916 was 436.00 feet above T. H. D., leaving 36.64 feet or 811 million gallons in the lake for further supply.

The following are the results of Analysis made at different periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	REMARKS.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1916	9.0	0.8	Nil.	0.112	Nil.	No smell, clear water, many brown particles floating, vegetable matter and clay.
July „	10.0	0.9	0.024	0.212	Nil.	Do.
October „	7.0	0.7	0.008	0.166	Nil.	No smell, clear water, many green particles floating with water fleas, much vegetable matter and clay.
January 1917	7.0	0.6	Nil.	0.16	Nil.	No smell, clear water, many brown and white particles floating, vegetable matter and little clay.

Distributing Mains.

Works in connection with the renewing and enlarging existing, and laying additional water mains were practically stopped during the year owing to the high cost of pipes. The following table shows the sizes and lengths of mains laid during the year.

Ward.	Locality.	Size of old main.	Size of new main.	Length of new mains in feet.	REMARKS.
C	Ardeshir Dady Street	...	6"	910	
A	Mint Road ...	...	5"	730	
C	1st Pinjrapole Street	...	5"	510	
C	3rd Do. ...	...	5"	520	
D	Garden on East Slope of Malabar Hill.	...	4"	300	
B	Olive Road (Raichur Street to Sholapur Street.)	...	4"	130	
F	Soparibatug Road ...	...	3"	310	
	Total ...			3,410	

Maintenance Works.

There were 52 bursts during the year as against 68 during 1915-16, 64 during 1914-15 and 49 during 1913-14.

3	...	36" main.
1	...	32" "
3	...	12" "
1	...	9" "
1	...	8" "
3	...	7" "
4	...	6" "
13	...	4" "
23	...	3" "

The number of the connections made during the year was 460, including 9 branch connections. Connections cut off for various reasons numbered 264, of which 76 were restored. The net increase therefore in the number of connections is 272. The total number of connections now stands at 25,542.

The total number of Municipal meters at present in use is 2,038.

The number of disconnections orders submitted to the Standing Committee from time to time during the year was 353 against 374 last year. All these were sanctioned and have been dealt with as follows :—

(1) Disconnections not enforced owing to parties having complied with requirements	...	89
(2) Disconnections enforced	...	264
(3) Connections restored on compliance with Municipal requirements	...	76
(4) Connections remained unrestored	...	188

Waste Prevention.

The Waste Prevention Branch of the Water Works Department continued their operations throughout the year with the result that 11,274 underground and 25,628 above ground defects were detected and repaired.

The following comparative statement shows the total length of water mains examined during the year under report and the preceding five years:—

Period.	Excluding second and subsequent tests.			Including second and subsequent tests.		
	lin. ft.			lin. ft.		
From 1st April 1911 to 31st March 1912	...	...	...	50,226	18,33,428	
From 1st April 1912 to 31st March 1913	...	...	...	35,965	24,86,482	
From 1st April 1913 to 31st March 1914	...	...	...	45,317	23,56,067	
From 1st April 1914 to 31st March 1915	...	...	...	11,356	24,64,100	
From 1st April 1915 to 31st March 1916	...	...	...	62,669	23,82,793	
From 1st April 1916 to 31st March 1917	...	...	...	4,704	25,41,769	

The total length of mains of all sizes examined during the year under report was 114 miles and 3,955 feet.

The number of defect notices issued during the year was 4,894 against—

4,594	issued during the year	1911-12
5,031	„ „ „	1912-13
3,968	„ „ „	1913-14
4,519	„ „ „	1914-15
4,386	„ „ „	1915-16

Particulars of defects detected and remedied, the number of diagrams taken, and the quantity of water found running to waste from 1st April 1916 to 31st March 1917 are given in the attached statement marked A.

Lakes, Reservoirs and Filters.

No important works worthy of notice were in progress at the Reservoirs and Filters during the year under review except the following :—

Malabar Hill Reservoir.

- (1) Rendering Filters mosquito proof.

Bhandarwada Reservoir.

- (1) Alterations to the old outlets of Filters Nos. 1 to 5.
- (2) Repairs to Filter No. 6.

Extensive repairs were also in progress to the Tansa Duct in Salsette and Kasheli Divisions.

Financial.

The Budget grant for the maintenance of the Water Department for the year 1916-17 was Rs. 4,26,946, which with the lapsed grants renewed and with the transfers and additional grants sanctioned amounted to Rs. 5,08,185-3-9. The total expenditure incurred against this sum and paid for during the year amounted to Rs. 4,09,538-1-8, leaving an unexpended balance of Rs. *94,376-5-1, a portion of which will be renewed in 1917-18 to meet the liabilities incurred during the year.

1.	Number of letters received during 1916-17	...	...	14,058
2.	Number of letters despatched during 1916-17	...	...	17,486
3.	Number of references made to the Inspectors	...	...	28,535
4.	Number of reports received from the Inspectors	...	...	36,792
5.	Number of vouchers received and passed	...	...	1,691
6.	Number of Departmental and Private Works Bills prepared and forwarded	...	...	1,221
7.	Number of references made to the Inspectors for certificates on vouchers	...	...	1,541
8.	Number of reports and certificates received from the Inspectors	...	...	1,541
9.	Number of requisitions received and forwarded	...	...	1,512
10.	Number of Notices issued in connection with defective pipes and fittings	...	...	5,247
11.	Total number of contracts executed	...	...	4
12.	Number of advices sent to the Chief Accountant	...	...	2,190

* These figures are subject to revision by the Chief Accountant.

FIRE BRIGADE.

I have the honour to submit my Annual Report on the working of the Brigade for the year 1916-17.

Calls.—The year was again a comparatively quiet one and although the number of fires was slightly in excess of the previous year, the number of serious fires were less. The total number of calls received totalled 251 resulting in 180 fires, 2 chimney fires and 35 false alarms as against 176 fires and 39 false alarms in 1915-1916. Included in the 35 false alarms were 3 calls to fallen buildings and 2 to fallen trees.

Fires.—Fires extinguished by the Brigade totalled 94 and 88 were extinguished before its arrival. The most serious fires occurred at Victoria Dock on April 17th, Elphinstone Road, Parel, on January 6th, 2nd Pasta Lane, Colaba, on February 9th and Suparibag Road, Parel, on March 30th. For fuller details of these fires see Appendix VI.

Fire Loss.—The estimated fire loss for the year has amounted to Rs. 5,57,837, while the property at risk has been rated at Rs. 2,67,47,172. Of this amount Rs. 5,36,424 was covered by insurance and Rs. 21,713 was uninsured. Compared with last year there is a decrease of Rs. 78,666, showing a loss of approximately 2 per cent. only on the property involved, and is the smallest loss since 1901 in which year it was returned at Rs. 1,99,900 with 76 fires. For comparative statement see Appendix VII.

Water Supply.—The water supply throughout the year has been satisfactory and the attendance of the Water Department Staff prompt. The effect of the constant supply has been to facilitate the work of the Brigade, enabling more hydrants to be used and less engine work and it is only fair to say that the good pressure now available has had not a little to do with the fire loss this year and last being so considerably reduced.

The approximate quantity of water used for extinguishing fires amounted to 1,436,210 gallons or 6,411·6 tons of which 708,660 gallons was taken from the mains and 727,550 gallons from the sea, docks and tanks, etc.

Lives Lost.—No lives were lost actually at fires but a baby aged 12 months received such injuries that it subsequently succumbed. Several persons however received minor injuries but have since recovered. First Aid was rendered on 9 occasions.

Fire Alarms.—The fire alarm system was completed during the year and there are now 73 fire alarms in working order. The working has been very satisfactory. The positions of the alarms are now well known to the public and it will be of interest to know that 53 per cent. of the calls to fires are now received by fire alarms.

A map showing the distribution, fire stations and positions of fires of the year is attached.

Stations.—Owing to the War, beyond acquiring the land nothing has been done in connection with the new Fort Station. It is hoped that the work will soon be taken in hand as the need of a more modern station and appliances in this locality is felt more and more every day. Proposals for building new stations at Dadar and Sewree and re-building Gowalia Tank Station for the same reason were not considered.

Appliances.—Owing to the Government control of the firms in England the appliances and hose on order are still undelivered. Provision for the ensuing year's requirements has been made in the Budget.

General.—The Brigade throughout the year was at its full strength. The officer who was called to the colours on the outbreak of war has been heard of and is at present serving

in Macedonia. The health of the staff has been fairly good. Two men received injuries at fires, etc., but none proved serious. One fireman died and 21 invalided, resigned or otherwise left the service.

At the request of the Kashmir State Authorities I was granted leave on deputation for a period of 21 days in January for the purpose of proceeding to Srinagar in connection with the re-organization of their Fire Brigade. During my absence Head Foreman Mr. Lainton had charge of the Brigade.

During the month of April 1916 the Brigade as an organized body completed its Jubilee and perhaps it would not be out of place to give a brief history of it.

Exactly how long a fire brigade has been in existence in Bombay is not correctly known. It is on record that a fire engine was in use about 1770 but no mention of any is made at the great fire in 1803.

As an organized body however it dates from 1865. In 1859, to quote Michael's History of the Corporation, the first attempt was made by the Government to saddle the Municipality with the cost of maintaining the fire brigade but the Commissioner informed Government that they were bound solely by Section 29 of Act 25 of 1858 in their payment of the annual expenses of the Police and that therefore they could not admit the liability of maintaining the fire brigade.

In 1865 the fire brigade was worked in conjunction with the Police and the Bench sent Mr. Edginton to England at public expense to qualify himself as Captain of the "New Steam Fire Brigade." The Brigade was at that time organized by Major Henderson formerly Commissioner of Police. Besides six hand engines, the Municipality then possessed four steam engines.

On April 1st, 1887 the services of the officers who were performing joint duties as Police Officers and Fire Brigade Engineers were taken over by the Municipality and from that date the staff became a purely fire brigade one.

Two years later it was decided to re-organize the Brigade and the following year a sum of Rs. 1½ lakhs was provided in the Budget for the purpose and to meet the charge, the maximum tax leviable under the Act namely $\frac{3}{4}$ per cent. was imposed on the annual rateable value of property. The tax imposed to-day is only $\frac{2}{3}$ per cent. and the budgetted grant for the present year is Rs. 2,11,000.

In 1890 Mr. Nicholls from the London Fire Brigade was appointed Chief Officer and at the end of 1892 the old engines had been re-placed by new ones. The equipment was then given as 8 steam engines, 9 manuals and 6 fire escapes with a staff of 135 of all ranks.

The first motor engine made its appearance in 1908, and I am pleased to say it is one of our fleetest machines to-day. Since then the Brigade has steadily progressed with motorization and we have now a fleet of 11 motor machines and 2 more on order, and had it not been for the war the old horsed engines by now would have passed out of the service. The staff at the present time is 262 of all ranks.

Mr. Nicholls retired through ill health in 1911 and I was appointed Chief Officer.

On April 8th, a Fire Brigade display was arranged at Head Quarters and Their Excellencies Lord and Lady Willingdon, the President and several members of the Corporation and other gentlemen were present. All expressed themselves highly pleased on leaving.

During the year 68 inspections were made of premises in connection with licences for dangerous trades, etc., Nineteen theatres and cinema halls were also inspected.

The Brigade turned out on 11 occasions to fallen buildings, 8 persons lost their lives by being over-whelmed and 13 received slight injuries, since recovered.

Distance covered by the motor appliances to and from the 251 calls of fires, totalled 2,548 miles.

Hydrant inspection was carried out periodically and the Municipal Office staff drilled regularly.

It has not been possible to continue the "Instruction in First Aid" Classes due to the call upon the doctors elsewhere.

Every assistance has again been rendered to the Brigade by the Officers of the Police, Water Department, and Salvage Corps all to whom I wish to express my thanks.

I have the honour to be,

Sir,

Your most obedient servant,

T. C. GREENOP,

Chief Officer, Fire Brigade.

Budgetted strength and equipment of the Brigade :—

Strength.

1 Chief Officer.	7 First Class Tindals.
3 Clerks.	8 Second Class Tindals.
1 Head Foreman.	9 Third Class Tindals.
7 Foremen.	40 First Class Firemen.
1 Mechanic.	145 Second Class Firemen.
8 Engineers.	5 Coachmen.
1 Fitter.	4 Grooms.
1 Head Tindal.	4 Mochis.
16 Motor Tindals (Drivers).	1 Chauffeur.

Making a total of 262 men of all ranks.

Equipment.

5 Horse-drawn Engines.	3 Manual Engines.
4 Petrol Motor Engines.	1 Hose and Store Van.
4 Steam Motor Engines.	1 Emergency Van.
2 Petrol Motor Tenders.	1 Brake.
1 Motor Turntable Ladder.	10 Horses.
15 Hose Reels.	1 Motor Car.
9 Hand Fire Escape.	35,000 feet of Hose, and other small
1 Hose and Ladder Truck.	appliances.

APPENDIX I.

Statement showing the Distribution of Engines, etc.

Numbers.	STATIONS.	Petrol Motor Pumps.	Motor Steamers.	Horse-drawn Steamers.	Manuals.	Hose Reels.	Hose and Ladder Truck.	Motor Tenders.	Motor Ladders.	Fire Escapes.	Smoke Helmets.	Hose Van.	Brake.	Emergency Van.	Horses.	Delivery Hose, 50 feet.	Foremen.	Motor Mechanic.	Engineers.	Fitters.	Motor Drivers.	First and Second Class Tindals.	Third Class Tindals.	Firemen of Grade.	Drivers.	Grooms.	Mochis.	REMARKS.
1	Byculla ...	...	1	4	...	1	...	...	...	2	...	1	1	1	8	204	1	1	4	1	3	5	1	39	4	3	1	
2	Haines Road ...	...	1	...	...	...	...	1	...	1	...	...	...	...	...	78	1	...	...	...	3	1	1	17	...	...	...	Escape carried on Motor Tender.
3	Gowalia Tank ...	...	1	...	...	1	...	...	...	1	...	...	...	...	...	42	1	...	...	...	1	1	1	23	...	...	1	Escape carried on Motor Pump.
4	Chinchpokli ...	...	1	...	...	1	...	...	...	1	...	...	...	...	...	52	1	...	...	...	1	1	1	19	...	...	2	Escape carried on Motor Pump.
5	Babula Tank ...	...	1	...	...	1	...	1	...	1	...	...	...	...	...	73	1	...	1	...	2	1	1	16	...	...	...	Escape carried on Motor Tender.
6	Fort... ...	...	...	1	...	1	...	...	...	1	...	...	...	...	2	37	1	...	1	...	...	1	1	12	1	1	...	
7	Colaba ...	...	1	...	...	1	4	...	...	1	...	...	...	...	...	62	1	...	...	...	1	1	1	16	...	...	...	Escape carried on Motor Pump.
8	DeLisle Road ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	15	...	...	...	...	...	1	...	7	...	...	...	
9	Mahim ...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	15	...	...	...	...	...	1	...	7	...	...	...	
10	Dadar ...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	15	...	...	...	...	...	1	...	7	...	...	...	
11	Bhuleshwar ...	...	1	...	...	1	...	...	...	1	...	...	...	...	...	41	...	...	1	...	1	1	1	6	...	...	...	
12	Mandvi ...	...	1	...	...	2	...	1	...	1	...	...	...	...	...	66	1	...	1	...	2	1	1	16	...	...	...	*Two Motor Drivers sanctioned, to be engaged.
	Total ...	...	4	4	5	3	15	7	2	11	9	2	1	1	1	10700	8	1	8	1	14	16	9	185	5	4	4	

APPENDIX II.
MUNICIPAL FIRE BRIGADE.

Summary of calls to fires (including false alarms) showing the number of times that appliances were used for attending and extinguishing fires during the year 1916-1917.

STATIONS.	How called.					No. of fire Alarms attached.	Appliances attended.										How extinguished.								REMARKS.			
	By Stranger.	By Police.	By Fire Alarms.	By Exchange Telephone.	By Private Telephone.		Total.	Hose and Ladder Truck.	Mannals.	Hose Reels.	Horsed Steam-er.	Motor Steam-ers.	Motor Pumps.	Motor Tenders.	Motor Turn-able Ladder.	Hand Escape.	Hose Van, etc.	Buckets.	Hand Pumps.	Chemical Ex-tinguisher.	1st Aid Ma-chine.	Hydrants.	Steamers.	Motor Pump.		Manual.	Sand.	
Byculla ...	1	1	18	74	1	95	...	...	1	...	28	...	...	...	4	9	1	...	...	...	...	3	...	...	...	...	549	
Haines Road...	1	...	...	...	...	1	...	...	...	...	...	39	28	...	...	...	2	2	...	...	6	...	4	...	...	...		
Gowalia Tank.	1	2	6	...	...	8	...	...	6	...	...	6	...	...	6	...	1	...	1	...	2	...	1	...	...	...		
Chinchookli ...	4	...	7	...	...	11	...	...	13	...	...	26	...	...	25	...	8	...	...	...	6	...	3	...	...	...		
Babula Tank...	2	1	...	...	...	3	...	...	...	...	109	...	102	...	...	...	2	1	1	2	4	4	...	...	...	...		
Fort ...	3	1	18	...	...	22	...	...	17	78	...	...	...	...	37	...	4	2	2	...	4	1	...	...	...	...		
Cotaba ...	18	...	17	...	...	35	...	...	32	...	...	56	...	...	56	...	1	4	2	...	3	...	6	...	1	...		
DeLisle Road...	1	1	2	...	...	3	...	7	7	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...		
Dadar ...	1	...	1	...	...	2	...	4	5	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...		
Mahim ...	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Bhuleshwar ...	3	...	41	...	...	44	...	...	51	...	107	...	...	...	56	...	...	1	1	...	2	2	...	...	...	...		
Mandvi ...	4	...	23	...	...	27	...	...	3	...	88	...	...	73	...	...	5	2	1	...	5	6	...	...	1	...		
Total ...	38	6	132	74	1	251	2	11	137	78	327	127	130	73	184	9	24	12	8	2	34	16	14	...	...	3	549	

APPENDIX III.

LIST OF CAUSES OF FIRES FOR THE YEAR 1916-1917.

Causes.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Total
Acid, leakage of ...	...	...	...	...	...	...	...	1	...	...	...	2	3
Ashes, hot ...	...	...	...	...	...	...	...	...	1	1	...	...	2
Candle, lighted...	...	...	...	...	...	...	...	1	...	...	...	...	1
Dammer, boiling over ...	...	1	2	...	...	...	...	...	1	...	...	...	4
Defective electric circuit	...	1	3	1	2	2	2	...	...	2	2	3	18
Doubtful ...	...	...	...	...	1	...	...	...	...	...	1	...	2
Fire, spark from ...	...	1	1	...	1	1	...	...	1	...	...	2	7
Fireplace, overheating of	...	...	...	...	...	...	1	...	...	...	...	...	1
Fireworks, letting off ...	...	...	...	...	...	...	3	...	...	...	...	...	3
Foul flue ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Friction ...	...	1	...	...	...	...	...	1	2	2	...	1	7
Gas, escape of ...	...	...	...	...	1	...	...	...	...	...	...	...	1
Gas lamp, over heat of...	...	...	...	...	...	...	...	...	1	...	1	...	2
Kerosine oil, upset	...	...	...	...	1	...	...	1	...	...	...	...	2
Kerosine oil lamp, over heat of ...	...	...	1	...	...	1	...	...	...	1	1	...	4
Light thrown down ...	7	1	1	...	1	2	2	6	5	5	2	5	37
Locomotive, spark from ...	...	1	...	...	...	...	...	...	...	...	...	...	1
Machinery, spark from ...	...	...	...	...	...	...	...	1	...	...	...	...	1
Matches, children playing with...	...	...	...	...	...	...	...	...	...	1	...	1	2
Naked light ...	...	...	...	...	...	...	...	1	...	...	...	...	1
Naked light, chemicals coming in contact with ...	...	...	1	...	...	...	...	...	...	...	1	1	3
Naked light, curtain coming in contact with...	...	...	...	...	...	...	...	...	...	1	...	...	1
Naked light, decorations coming in contact with ...	...	...	...	...	1	...	...	1	...	...	...	...	2
Naked light, grass coming in contact with ...	...	...	...	...	...	...	...	1	...	...	...	...	1
Naked light, petrol vapour coming in contact with ...	...	...	...	...	...	...	...	...	...	...	1	1	2
Oil boiling over ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Oil engine, explosion of mineral oil tank of ...	...	...	...	...	...	...	...	...	1	...	...	...	1
Oil lamp, over heat of ...	...	...	...	...	...	1	...	...	...	...	...	...	1
Oil lamp, upset ...	...	1	...	...	2	...	...	...	...	...	...	...	3
Petrol lamp, explosion of ...	...	...	...	...	...	...	...	1	...	...	...	...	1
Petrol, leakage of ...	...	...	1	...	...	...	1	...	...	...	...	1	3
Rubbish burning ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Spontaneous ignition ...	...	...	...	...	...	...	...	...	...	...	2	2	4
Stove, oil upset...	...	...	...	...	...	...	...	...	...	1	...	...	1
Tar boiling over ...	...	1	...	...	...	...	...	...	1	...	...	...	2
Tobacco, smoking ...	...	1	1	...	...	...	...	1	...	1	2	...	6
Tobacco, drying ...	...	...	...	...	...	...	...	...	1	...	...	...	1
Unknown ...	5	11	4	3	2	1	2	1	3	5	3	6	46
Total ...	13	20	15	4	12	8	12	18	17	20	16	25	180

APPENDIX IV.

LIST OF FIRES THROUGH WHICH PROPERTY TO THE EXTENT OF RS. 2,000 AND UPWARDS
WAS DESTROYED DURING THE YEAR 1916-17.

Date.	Locality.	Description of property destroyed.	Estimated value.
1916.			Rs.
17th April ...	Victoria Docks... ..	Steam-ship	50,000
11th May ...	Arthur Bunder, Colaba ...	Cotton godown... ..	23,000
14th „ ...	Arthur Bunder, Colaba... ..	Cotton godown... ..	5,000
24th „ ...	Suparibag Road... ..	Cotton mill	5,000
12th June ...	Ghellabhoy Street, Ripon Road...	Dwellings	2,530
13th „ ...	Clive 3rd Cross Lane, Mandvi ...	Match godown... ..	5,000
28th September ...	Dhaboo Street, Sandhurst Road...	Rope dealers	5,050
28th October ...	DeLisle Road, Byculla	Seed crushing mill	10,000
15th November ...	Dadar Road, Dadar	Cotton mill	2,300
29th „ ...	Samuel Street	General dealers... ..	6,470
2nd December ...	Apollo Reclamation, Colaba ...	Cotton	9,000
6th „ ...	DeLisle Road	Cotton mill	20,000
24th „ ...	Mazagaon Road	Seed crushing mill	7,000
1917.			
6th January ...	Elphinstone Road, Parel ...	Cotton mill	1,50,000
18th „ ...	Bellasis Road, Byculla	Cotton cleaning factory ...	2,000
18th „ ...	Colaba Road (West Side) Colaba.	Cotton godown... ..	25,000
30th „ ...	Dongri Street, Dongri	Cotton waste godown	8,600
9th February ...	2nd Pasta Lane, Colaba ...	Cotton godown... ..	51,800
13th „ ...	Marine Lines	Motor garage	10,000
22nd „ ...	Wari Bunder, Goods Depot ...	Jute	10,000
8th March ...	Government Gate Road, Parel ...	Cotton mill	2,000
24th „ ...	DeSouza Street, Mandvi ...	General dealers... ..	11,000
30th „ ...	Suparibag Road, Parel... ..	Cotton mill	1,20,000

APPENDIX V.

SUMMARY OF LIVES LOST AT FIRES DURING THE YEAR AND OF PERSONS WHO RECEIVED
SUCH INJURIES THAT DEATH SUBSEQUENTLY ENSUED.

Date.	Time.	Place.	REMARKS.
5th December 1916...	2-17 P.M. ...	Parel Tank Road ...	Anant Bapoo, aged one year, burned about face and body. Removed to Hospital. Since dead.

APPENDIX VI.

BRIEF DETAILS OF THE MOST SERIOUS FIRES OF THE YEAR.

Date.	Time.	Place.	Business.	Extinguished by	Damage.	Estimated loss.
1916.						Rs. a. p.
17th April.	8-0 P.M.	No. 6 Shed, Victoria Docks.	Steamship.	Firemen with 3 Motor Steamers, 1 Motor Pump and 1 Hosed Steamer.	A steam-ship of 2,244 tons register, No. 2 lower hold and contents comprising cotton, linseed and copra, etc., severely damaged by fire and water and forepart of saloon adjoining and bridge deck over slightly by heat and smoke.	50,000 0 0
1917.						
6th Jan.	5-44 P.M.	Elphinstone Road, Parel.	Spinners and Weavers	Firemen with 2 Motor Steamers, 2 Motor Pumps and private appliances.	A building of 3 floors 500 x 100 feet used as cotton mill, about one half of top floor used as spinning room and contents severely damaged by fire and most part of roof off. Rest of floor and contents by heat and smoke and lower part of building and contents slightly by water	1,50,000 0 0
9th Feb.	12-25 P.M.	2nd Pasta Lane, Colaba.	Cotton Merchant.	Firemen with 2 Motor Steamers and 1 Motor Pump.	A building of one floor 40 x 30 feet used as godown and contents consisting of 1,200 bales of cotton, severely damaged by fire, heat, smoke and water and roof off	51,000 0 0
30th Mar.	10-42 P.M.	Suparibag Road, Parel.	Spinners and Weavers.	Firemen with 3 Motor Pumps 1 Motor Steamer and private appliances.	A building of 6 floors 600 x 80 feet used as cotton mill. Cock loft 200 x 80 feet under roof used as rope and general store and contents burned out and roof off. Rope alley 100 x 15 feet, adjoining and communicating, whole height of building and contents severely damaged and part of contents of 5th floor used as winding room slightly by fire, heat and smoke, and lower part of building and contents by water	1,20,000 0 0

APPENDIX VII.

MONTHLY SUMMARY OF FIRES AND ANNUAL LOSSES FOR THE PERIOD 1907-1908 TO 1916-1917.

YEAR.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Total.	Estimated Loss.
1907-1908.	12	10	7	4	1	6	6	13	10	11	18	4	102	33,36,274
1908-1909.	7	11	7	5	2	8	11	11	9	12	9	10	102	23,94,164
1909-1910.	9	18	8	7	6	4	9	5	7	10	17	9	109	15,05,557
1910-1911.	8	8	9	14	3	2	7	18	16	8	13	11	117	5,76,742
1911-1912.	12	8	4	7	8	12	14	7	13	11	11	17	124	23,04,703
1912-1913.	14	9	5	11	10	13	14	13	23	17	17	16	162	15,20,093
1913-1914.	14	11	11	2	10	5	14	29	29	27	35	37	224	64,75,696
1914-1915.	48	42	39	15	14	17	17	27	14	19	17	11	280	30,19,569
1915-1916.	20	15	12	13	11	12	9	25	13	19	12	15	176	6,36,503
1916-1917.	13	20	15	4	12	8	12	18	17	20	16	25	180	5,57,837

APPENDIX **VIII.**

Prosecution for malicious interference with Fire Alarms during the year 1916-17:—

Date.	Nature of Offence.	Police Court and Magistrate.	Remarks.
1st May 1916 ...	Breaking the glass of fire alarm at Dongri Street and giving false alarm of fire.	Mazagon Police Court, Presidency Magistrate.	Hussen Esmail, aged 24 years, fined Rs. 10.
6th August 1916 ...	Breaking the glass of fire alarm at Jakeria Musjid Street and giving false alarm of fire.	.....	Ahmed Mahomed, aged 55 years, certified insane by the Police Surgeon, and removed to Asylum.
4th September 1916	Breaking the glass of fire alarm at Broach Street, Mandvi.	Mazagon Police Court, Honorary Magistrate's Bench.	Govind Gopal, aged 38 years, fined Rs. 2.
23rd September 1916.	Breaking the glass of fire alarm at Bazar Gate Street, Fort, and giving false alarm of fire.	.....	Sookli Babla, aged 35 years, certified insane by the Police Surgeon, and removed to Asylum.
31st December 1916.	Breaking the glass of fire alarm at Parsee Statue, and giving false alarm of fire.	Mazagon Police Court, Presidency Magistrate.	Walter Newman, aged 18 years, warned to be of good behaviour for six months.



PUBLIC GARDENS.

REPORT OF THE SUPERINTENDENT OF MUNICIPAL GARDENS RECEIVED
UNDER HIS No. 433 OF 28TH MAY 1917.

SIR,

I have the honour to submit the Annual Report on the administration of the Municipal Gardens in my charge for the official year 1916-17.

2. Mr. C. D. Mahaluxmivala, Superintendent, Municipal Gardens, was granted furlough in combination with privilege leave for 2 years from 1st May 1916 and I was appointed to act in his place.

3. The following gardens were maintained during the year under report :—

- (a) Victoria Gardens.
- (b) Elphinstone Circle Garden.
- (c) Falkland Road Garden.
- (d) Northbrook Garden.
- (e) Sir Cowasji Jehangir Garden at Mahim.
- (f) Bhatia Baug Garden, (now named "Victoria Square").
- (g) Dick's Tank Garden.
- (h) Esplanade Bandstand Green.
- (j) Chowpaty Bandstand (temporary).
- (k) Flora and Wellington Fountains and the Queen's Statue.

4. The Bhatia Baug, now named "Victoria Square", where the turf was laid and a central group of palms planted by the Executive Engineer's Department, was given in my charge on 10th July 1916. Since then the avenue of trees on the footpath has also been planted but the provision of a permanent railing and a fountain, the planting of a hedge inside the railing and the laying out of flower beds have been kept in abeyance for the present. The statue of the late Sir D. M. Petit, 1st Baronet, was erected there on the corner nearest to the Municipal office during the year under report.

5. The Falkland Road Garden has been dismantled and is being now turned into a Play-ground for children from a special grant provided by the Corporation for the purpose.

6. The Northbrook Garden where Health Camps had been located since the outbreak of plague in Bombay was cleared of these camps during the year under report and this garden also will be turned into a Play-ground for children from a grant provided for the purpose in the current year's Budget.

7. The total number of visitors to the Victoria Gardens during the year under report was 15,82,500 against 15,44,708 in the previous year, showing an increase of 37,792.

8. The difficulty of securing sufficient labour was felt more than ever during the year under report, as much as 40 per cent. of the staff of Mallees &c. being short on many days during the year, and especially during the whole months of May, June, July and August. The water supply was also deficient in pressure though more continuous than in previous years. The general condition of the Gardens was not however allowed to be below its usual standard of neatness and order in spite of these difficulties.

9. All the roads in the Gardens were repaired and kept in order as far as the deficiency of labour during the rains allowed, and some more new roads were tarred and others retarred during the year under report by the Executive Engineer's Department.

10. The construction of surface storm-water drains which was kept in abeyance in the previous year was continued during the year under report from the special grant of Rs. 5,000 provided for the purpose.

11. In response to the demand for "more flowers" in the Garden, a series of new flower beds were designed and laid out opposite the Lion House, and the Cockatoo Cage, and in four or five other prominent places in the Garden. Some new varieties of seeds were also introduced for the first time during the year under report. Of these, *Calandrinás*, *Clarkias*, *Gypsophyllas*, *Sponarius*, *Linums*, *Silene*, and *Nigella* proved successful, whilst others requiring a much colder and drier climate germinated and grew vigorously but failed to flower.

12. Some old "Rain" and other trees planted very near each other were cut down entirely, and others lopped, to admit of more sun and light in the Deer Enclosures and other parts of the Garden. Two big plots round the Bhownagar and Monkey Houses overgrown with insignificant and unattractive shrubs and trees were cleared out with a view to laying them out with lawns, flower beds, shrubberies, etc. The work was however not proceeded with as in the meantime the Committee of the Corporation suggested to the Commissioner to consult Mr. Millard as to whether he had any suggestions to make for improvements in the Gardens. In pursuance of the above the Commissioner had two or three meetings at the Gardens with Mr. Millard during the month of March when Messrs. F. Harrison and W. E. Waite were also present, and as suggested by these gentlemen several alterations are now being effected in the central avenue of the Garden, where many trees without much value or interest have been cut down, and a series of lawns and ribbon flower beds are being made along the whole length of the avenue. This when completed will no doubt form an attractive feature of the Garden as several similar flower beds mentioned in paragraph 11 above, which I had already made in other parts of the Garden during the year under report, made a good show of the usual cold weather annuals and were greatly admired by the public.

13. There is still much to be done in the way of thinning out some thick shrubberies and overgrown trees while removing entirely others which are superfluous. The areas thus reclaimed could well be utilized for extending the lawns or for new cages and enclosures of animals. Before however embarking upon any drastic changes it would be well if, once for all, a definite policy is declared as to the style and character of the Garden as stated in paragraph 93 of the Report submitted to the Corporation for the improvement of the Gardens. Also to decide if the Gardens should be maintained in the future merely as an ornamental and pleasure ground or should have any botanical and scientific pretensions also. On arriving at a definite conclusion account will have to be taken of the area of the Garden, its situation, soil, climate, etc., and the compatibility of a zoological collection with a botanical garden in a restricted area.

14. It is worth recording that this year also a third species of bamboo—*Dendrocalamus giganteus* (the giant bamboo)—flowered in the Garden but as the flowers were all male it did not seed.

15. A list of new plants added to the collection during the year under report is shown in Appendix A.

16. The number of band performances at the different Municipal Bandstands which had to be curtailed, during the previous years, owing to insufficient grants and the paucity of the Bands, was brought up to the usual average during the year under report, though, for reasons stated above, the performances at the Victoria Gardens during the early part of the year were less. Thus there were 11 performances at the Victoria Gardens as compared with 12 in the previous year. The performances at the Esplanade and Chowpaty Bandstands were 43 and 11 respectively against 36 and 12 during the year before.

17. The total number of band performances with admission fees at the Victoria Gardens was 10 against 7 in the preceding year and the total number of visitors and the receipts collected during these performances were 14,994 and Rs. 1,505-11-6, averaging 1,499 visitors and Rs. 150-9-2 per each performance against 1,279 visitors and Rs. 133-1-3 respectively in the previous year.

18. As in the previous years Their Excellencies Lord and Lady Willingdon were again pleased to kindly place their band at our disposal to play once a fortnight from February to April at the Municipal Bandstands. Two of these performances were given at the Victoria Gardens and two at the Esplanade Bandstand. They were anxiously looked for by the public and much appreciated, and drew larger crowds than the performances of other bands, and our best thanks, as also of the public, are therefore due to Their Excellencies for this continued favour.

19. Elephant rides were not given during the first four months of the year owing to the abscess in the foot of the animal, mentioned in the last report, having increased. They were continued from July however upto the end of the year, during which time 5,353 adults and 8,738 children took advantage of it, the fees realized therefrom being Rs. 955-7-0. The figures for camel rides during the year were 670 adults and 1,456 children and the fees realized Rs. 176-8-0 against 513 adults and 1,380 children and Rs. 148-8-0 respectively in the year before.

20. A list of additions to the zoological collection by purchase, exchange and presents, and the casualties among the animals by disease, accidents and injuries during the year under report are given in Appendix B. Our best thanks are due to the donors of the animals. The principal gifts were—a rare albino specimen of the Rib-faced Deer from Mr. Framji Jamshetji Deboo of Nasik; a Spotted Deer from Mr. R. Houner.; 13 large Pin-tailed Sandgrouse from the Bombay Natural History Society; a Leopard Cub from Mr. K. V. Dhopeshwarker; an Arabian Gazelle from Gunner Wood of H. M. S. Dufferin and a Persian Gazelle from Mrs. D. E. Alexandra.

21. Amongst the animals born in the Garden during the year were 4 Nilgais, 2 Indian Antelopes, 8 Rhea Chicks and 2 Sambar Deer. The Rheas unfortunately breed just before the rains commence. The young chicks consequently suffer from rickets and rheumatism during the damp weather and do not thrive. For the first time however during the last five years three of them survived upto the end of February last. Of these one has now grown into a healthy and vigorous bird, the other two having succumbed to rickets from which they were suffering since their birth.

22. The trade in wild animals continued to be slack on account of the war; still a very nice young male lion was purchased during the year under report and a collection of animals was obtained, also by purchase, from the Calcutta Gardens amongst which were a young lioness and 4 Cotton Teals, a pair of Panda or Cat-bears, and a Gayal or Mithan which were exhibited here for the first time, and several other interesting birds.

23. There was only one exchange transaction during the year, a pair of Red-necked Wallabies received from the State Gardens, Baroda.

24. The effects of the outbreak of Tuberculosis amongst the Llamas and Spotted Deer last year were also marked during the year under report upto the end of December but not, fortunately, to a large extent. An Indian Antelope and an Arabian Gazelle showing symptoms of the disease were destroyed during the early part of the year and tuberculous lesions were found on the lungs of both of them. A Malayan Tapir died on 10th August and also a Beisa Antelope, which had lived in the garden for twelve years, on 31st January 1917 of this disease. A Ring-tailed Coati, which lived here for five years, also died of this disease on 24th January last, but it was I believe only a sporadic case as no other animal amongst the many living in the same house has yet been affected. Prompt precautionary measures were taken in all cases and the cages and enclosures were dug up, exposed to the sun and light and thoroughly disinfected.

25. No cases either of Rinderpest or Anthrax occurred during the year under report nor of Haemorrhagic Septicæmia which carried away a number of animals in the previous year. A few cases of Streptococcal and Pneumococcal Septicæmia however occurred during the year resulting in the death of an old Tiger, a Leopard, a Panda or Cat-bear, a Persian Gazelle, an Indian Wolf and two Pheasants.

26. Amongst the deaths caused by other diseases were a Leopard, an Indian Gazelle, a Sloth Bear Cub, an Indian Wild Ass, and a Gayal from Pneumonia and Congestion of the Lungs; a Nicobar Pigeon, 2 Californian Quails, a Swinhoe's Pheasant, a Slender-billed Cockatoo, an Argus Pheasant, a Concave Horn-bill, and a White Stork from Chicken Cholera; an Indian Wolf from Peritonitis; an Adjutant Bird from Choking; a Malbrouk Monkey from Dystokia; and a Rib-faced Deer, a Californian Quail, an Annubis Baboon, and a Ring-necked Pheasant from accidents and injuries from other animals.

27. Our best thanks are again due to Major W. G. Liston, C. I. E. and his staff for their kind trouble in making *post mortem* and bacteriological examination of dead animals at the Parel Laboratory and for giving general help and advice.

28. Our thanks are also due to the Agents of the G. I. P. and the B. E. & C. I. Railways for their continued help in granting free passes for all our animals and their keepers to bring animals from upcountry. Without this favour on their part it would not be possible to obtain many animals from long distances on their lines.

29. The Sir Cawasji Jehangir Garden at Mahim continues to be occupied with Health Camps. The use of the Elphinstone Circle Garden was lent to the Committee of the War Sale and Fete for three weeks during November 1916 during which time it was closed to the public. The common ferns growing along the sides of the four main avenues of this garden are now removed and suitable flower beds are being made thereon. The large fountain in the centre of the garden which was kept empty since many years, to prevent breeding of mosquitoes, was filled in with earth and turfed over and flower beds were also made thereon during the year under report.

30. The estimated and actual expenditure of all the Municipal gardens during the year under report are shown in the table below:—

Name of Garden.	Budget Grants.	Expenditure.	
	Rs. a. p.	Rs. a. p.	
		73,844 3 8	Actually spent.
		14,166 0 0	Liabilities incurred.
(a) Victoria Gardens	94,241 9 7	88,010 3 8	
		7,932 4 1	Actually spent.
		7,181 15 10	Liabilities incurred.
Do. New Works	16,324 15 11	15,114 3 11	
		1,428 13 7	Actually spent.
		15 0 0	Liabilities incurred.
(b) Elphinstone Circle Garden ...	1,562 0 0	1,443 13 7	
		254 12 2	Actually spent.
		24 0 0	Liabilities incurred.
(c) Falkland Road Garden	334 0 0	278 12 2	
(d) Northbrook Garden... ..	1,497 0 0	1,464 3 2	
(e) Sir Cawasji Jehangir Garden at Mahim.	225 0 0	188 14 10	
		357 3 1	Actually spent.
		10 0 0	Liabilities incurred.
(f) Bhatia Bang Garden	631 0 0	367 3 1	
		257 6 2	Actually spent.
		100 0 0	Liabilities incurred.
(g) Dick's Tank Garden	369 0 0	357 6 2	
		3,616 8 10	Actually spent.
		90 0 0	Liabilities incurred.
(i) Esplanade Bandstand Green...	3,949 0 0	3,703 8 10	
		750 8 9	Actually spent.
		5 0 0	Liabilities incurred.
(j) Chowpaty Bandstand	1,147 6 6	755 8 9	
		287 5 8	Actually spent.
		10 0 0	Liabilities incurred.
(k) Flora and Wellington Fountains and the Queen's Statue.	325 0 0	297 5 8	
Total Rs.	1,20,606 0 0	1,11,984 3 10	

I have the honour to be,

Sir,

Your most obedient servant,

JAMSHED M. DOCTOR, C.M.Z.S.,

Acting Superintendent, Municipal Gardens.

APPENDIX A.

LIST OF PLANTS AND SEEDS ADDED TO THE COLLECTION IN 1916-1917.

Names of Plants.	From whom received.
Cassia Corymbosa	In exchange from the Agri-Horticultural Society of India, Alipur, Calcutta.
" laevigata	
Beaumontia Khasiana	
Melodinus monogynus	
Dædalacanthus salacanthus	
Thunbergia affinis... ..	
Strobilanthus sabinianus... ..	
Ixora splendida	
" amabilis	
" Alipurense	
" sanguinea	
" coccinea magnifica	
" Ragoosula Stalkarto	
" stricta	
Stylocoryne Webra	
Stigmaphyllon littorale	
Clerodendron album	
Pothos celatocaulis	
Jasminum azoricum	
Brunfelsia grandiflora	
Oncoba spinosa	
Jasminum pubescens	
Ligustrum neilgherrense... ..	
Putranjiva Roxburghii variegata	
Phyllanthus pulcher	
Acalypha Mrs. Apcar short	
" Lancasteri	
Raphistemma pulchellum	
Mesua ferrea	
Camellia japonica	
Nerium flore-pleno	
Acanthorhiza aculeata	
Cocos oleracea	
Diplothemum maritimum	
Drymophaeüs olivaeformis	
Euterpe edulis	
Heterospatha elata	
Livistona olivaeformis	
Martinezia lindeniana	
Pinanga Kuhlii	
" maculata	
Zalacca edulis	
Calamus Roxburghii	
Licuala Rumphii	
Daemonorops longispatha	
Ptychoraphis singaporensis	
Licuala peltata	
SEEDS.	
Brownea grandiceps	Purchased from the Royal Botanic Gardens, Peradeniya, Ceylon.
Bignonia Unguis	
Eucalyptus paniculata	Purchased from the Government Botanic Gardens, Ootacamund.
" pilularis	
" robusta	
" siderophloia	

JAMSHED M. DOCTOR, C.M.Z.S.,
Acting Superintendent, Municipal Gardens.

APPENDIX B.

List of increase and decrease of animals in the Victoria Gardens during 1916-17.

A.—The following were added to the collection during the year under report :—

PRESENTED.	
1 Indian Antelope	Presented by Mr. N. S. Arnold.
1 Rib-faced Deer (albino)	" " F. J. Deboo.
1 Hill Myna	" " C. Lucas.
2 Indian Sloth Bear Cubs	" " E. Stuparich.
1 Indian Gazelle	" " A. G. Chawan.
1 Spotted Deer	" " R. Houser.
1 Persian Gazelle	" " Mrs. D. E. Alexandra.
13 Large Pin-tailed Sandgrouse	" " The Bombay Natural History Society.
1 Grey Partridge	
1 Leopard Cub	" " Mr. K. V. Dhopeshwarker.
1 Arabian Gazelle	" " Gunner Wood of H. M. S. Dufferin.
1 Indian Sloth Bear Cub	" " Mr. J. D. Glewis.
1 Mascovy Duck	" " Bai Baahubai N. Pandey.
1 Muscovy Duck	" " Mrs. M. M. Patel.
BORN IN THE GARDENS.	
4 Nilgais,	8 Rhea chicks.
2 Antelopes,	2 Sambur Deer.
PURCHASED.	
2 Kalij Pheasants.	1 Egyptian Goose.
2 Peacock Pheasants.	1 African Lion.
2 Red-Crested Pochards.	1 Spotted Deer.
4 Cotton Teals.	2 White-crested Cockatoos.
2 Concave Hornbills.	8 Singapore Mynahs.
6 Bar-headed Geese.	2 Black-Gorgetted Laughing Thrushes.
2 Panda or Cat-bears.	2 Saging Firebacks.
2 Argus Pheasants.	2 Small Pied Hornbills.
1 African Lioness.	2 Indian Tree-pies.
1 Gayal or Mithan.	
RECEIVED IN EXCHANGE.	
2 Red-necked Wallabies.	From the State Gardens, Baroda.
B.—The following were among those that died or were destroyed during the year under report :—	
1 Malbrouk Monkey.	1 Arabian Gazelle.
1 Annubis Baboon.	1 Persian Gazelle.
2 Lions. (1 old and rickety specimen).	1 Malayan Tapir.
1 Lion Cub.	1 Rib-faced Deer.
1 Tiger (Old specimen).	1 Gayal or Mithan.
2 Leopards.	1 Concave Hornbill.
1 Panda or Cat-bear.	1 Adjutant.
1 Ring-tailed Coati.	1 White-necked Kalij.
1 Himalayan Bear (Old specimen).	1 Ring-necked Pheasant.
2 Indian Sloth Bears.	4 Californian Quails.
2 Wild Asses.	1 Swinhoe's Pheasant.
6 Indian Antelopes.	2 Argus Pheasants.
1 Beisa Antelope (Old specimen).	1 Saging Fire-backed Pheasant.
5 Indian Gazelles.	

JAMSHED M. DOCTOR, C.M.Z.S.,

Acting Superintendent, Municipal Gardens.

VICTORIA AND ALBERT MUSEUM.

REPORT OF THE CURATOR AND SECRETARY, VICTORIA AND ALBERT
MUSEUM, RECEIVED UNDER HIS No. 44, DATED 1st OF MAY 1917.

SIR,

I have the honour to submit the Annual Report of the Victoria and Albert Museum for the year ending 31st March 1917.

No. of Visitors, The following table gives the comparative attendance of visitors to the Museum during the years 1915-1916 and 1916-1917:—

Year.	No. of days the Museum was open.	No. of visitors in the year.	Daily average.
1915-1916 	314	745,216	2,378
1916-1917 	313	762,144	2,442

It will be seen that during the year under report, there has been an increase of nearly 17,000 in the number of visitors as compared with that for the previous year.

In order to ascertain the proportion of visitors belonging to the literate and illiterate classes, a Visitors' Book was placed in the Hall of the Museum in January 1917, in which visitors were requested to write their names either in English or in their own vernaculars. This book was placed in the hall on the four Sundays in the months of January, February and March, as the number of visitors is greater on these days than during the rest of the week. The total number of Sunday visitors in the last three months of the year was 64,896, and of these only 458 signed their names in the book. This small number cannot be taken as evidence of the real proportion of literate to illiterate visitors, as signatures to the book are optional, and the test has been applied for the first time; while arrangements for bringing the book to the notice of the visitors were not very adequate. These arrangements will be improved, and already the number of signatures appears to be increasing. Out of the total number of 458 who signed their names, 373 signed in English, and 85 in their own vernaculars, 16 in Marathi, 55 in Gujrathi and 14 in Urdu.

During the year extensive repairs to the upper south-eastern room were carried out under the supervision of the Executive Engineer of the Municipality. The ceiling over one room which leaked freely, was renovated, and the wall on the southern side of the building was completely repaired.

A cast iron spiral stair-case giving access to the roof terrace from within the building was put up in this room. This will enable the wooden ladder now standing against the eastern wall on the outside of the building to be removed, thus minimising the chances of thefts occurring in the Museum.

Special steps have been taken to prevent rain water coming in from some portions of the roof and the terrace.

The main walls of the building have been treated on the outside with a stone preservative.

An order for four show cases to contain specimens in the Natural History and Ethnological Sections was placed with Mr. Benjamin of the Bombay Art Furnishing Establishment. These cases have not yet been received, as Mr. Benjamin has not received the glass required for them.

Natural History.

The following work was done in the Natural History Section :—

(a) As reported in my last year's report, the work of arranging the specimens of sea shells was taken in hand by the late Mr. Dowlatrao Rahator, 1st Museum Assistant. All the specimens have been cleaned, remounted, arranged and provided with printed labels.

(b) The case containing specimens of Parrots has been rearranged and the specimens identified. Those found to be worn and discoloured, have been replaced by new ones.

(c) A case containing specimens of the marine fauna found in the neighbourhood of the Island of Bombay was prepared. A few specimens of Sea-Gulls, Kingfishers, Herons and Storks were procured and stuffed. The case now forms one of the most interesting cases in this section of the Museum.

(d) Specimens of Wood-Peckers, Koyals and Quails were added by purchase to the collections already exhibited in the cases set apart for these birds.

(e) The carcasses of the following animals were received from the Superintendent of the Victoria Garden :—

1 White Crested Kalij, 1 Red Crested Pochard, 1 Ring-necked Pheasant, 1 Brown-winged Dove, 3 Specimens of Blossom-headed Parakeets, 1 Indian Oriol, 1 Pale Crested Cuckoo, 2 Specimens of Indian Crested Cuckoo, 1 Adjutant, 1 Young Hog Deer, 1 Chucker Patridge, 1 Pin-tailed Duck, 1 Malayan Tapir, 1 Snipe, 1 Leopard Cub, 1 Lioness, 1 Californian Quail, 1 Fan-tailed Pigeon, 1 Indian Bear, 1 Argus Pheasant, 1 Sea-Gull, 1 Night Heron, 1 Gayal, 1 Pigeon, 1 Porcupine, 1 Brown Bear Cub, 1 Variegated Sheldrake, 1 Ring-tailed Civet, 1 Sloth Bear, and 1 Himalayan Bear.

These were skinned, cured and stuffed by the Museum Taxidermist.

The copper coins reported last year to have been found near Chaupaty. were sent to the Superintendent of Archaeology, Western Circle, at his request, but were returned by him as they could not be identified. These have now been placed in the coin collection.

The following Indian Army War Medals were purchased from a dealer at Bangalore and added to the collection of medals.

Somaliland, 1902-04; Egypt, 1884-1886; Sudan, China, 1900; North-West Frontier, 1908; Khediv's Star, Egypt 1882; and "For Long service and good conduct."

Six photographic views of the cave temples known as Jogeshwari near Andheri, and six views of the Mahakal caves on the Island of Salsette were procured. These have been framed and put up on the walls in this section.

The north-eastern room on the first floor was fitted with a wooden rail to receive pictures of Old Bombay. But the work of arranging these had to be deferred as the room was required for use by the 1st Assistant, the one set apart for his use being under repairs.

A photograph of the old building of the Robert Money Institute at Dhobi Talao was presented to the Museum by the Rev. J. H. Wilson, Principal of the School.

Seven photographs of the Governors of Bombay taken from life sized paintings belonging to Government House, Poona, were added to the collection of portraits connected with the history of Bombay.

Two photographs of Bombay views were purchased and added to the collection.

A descriptive catalogue of the Bombay Room is now in hand, and will be completed during the present year.

Short monographs containing brief accounts of the carved wood and stone industries were printed and put in the cases containing these specimens. A label containing a brief account of the history of the Taj at Agra was printed and exhibited in the case containing the marble model of that building.

Photographs of persons wearing Indian head-dresses and turbans were procured and framed in the panels of the case containing specimens of Turbans and Indian Head-dresses. In addition to the exhibition of pictorial post cards and other pictures dealing with the various phases of the war, a large model has been constructed to illustrate a battle in a more realistic manner than is possible by means of a

picture. Some hundreds of models of soldiers in fighting attitude together with models of guns of various calibres, zeppelins and flying machines were made to scale at the Museum and at the Reay Art Workshop of the Sir J. J. School of Art, Bombay. The general plan and lay out of the battle ground and its details were designed and made by the 1st Assistant Mr. Chunilal and were based on materials gathered from illustrated books dealing with the war. Criticisms were invited from the many military men who visited the Museum, so that a vivid impression of the actual fighting now going on may be conveyed to illiterate visitors. The model has been a great success, and is surrounded by a crowd every afternoon.

Specimens of two knives used by the Arabs, one clip for rifle bullets, one empty shell of a field gun, one Time fuse for exploding shell, and one bayonet taken from the Turks in Gallipoli were purchased for the collection of war specimens in the Museum.

The Library. The following books were purchased for the Museum Library during the year under report :—

Lays of Law dedicated to Sir M. Westropp ; Drainage and Sewerage of Bombay ; Water Supply of Bombay ; Genera Insectorum, Parts 164, 165 and 167-171 ; The Magic of Jewels and Charms ; Tribes and Castes of Central Provinces in four volumes ; Hindu Holidays and Ceremonies ; History of the Byculla Club ; Weber's History of Indian Literature ; Hatha Yoga ; Elements of Hindu Iconography, Part II ; Pictorial Ramayana ; History of Mahabaleshwar ; Indian Antiquary, 1916 ; Times History of the War ; and Origin of Civilisation in two volumes.

Two volumes of Tribes and Castes of Cochin by Mr. L. K. Ananthakrishna Iyer, Curator of the State Museum, Trichur, were presented to the Museum by the Diwan of the Cochin State.

Printing of labels. 4,140 labels for 414 different specimens of shells, 480 labels for the specimens of fossils, 510 for Military figures and few labels for the Archaeological and Industrial Sections were printed during the year in the Museum press.

The substitution of new cases for old ones having now been carried out, a complete list of all dead stock articles together with a list of all the books in the Office. Museum Library has been sent to the office of the Chief Accountant for record.

The order and cleanliness of the Museum has been maintained at the high level of previous years by Mr. Pai and the permanent staff under him, and the office work has been carried out efficiently. It gives me great satisfaction to report this, and to put upon record the excellent work done by the staff during the year.

I have the honour to be,

Sir,

Your most obedient servant,

CECIL L. BURNS,

Curator and Secretary.

No. 2442 OF 1917-18.

From

E. J. HALE, Esq.,

STOREKEEPER, MUNICIPALITY,

To

THE MUNICIPAL COMMISSIONER

FOR THE CITY OF BOMBAY.

MUNICIPAL STORES OFFICE,

BOMBAY, 1st June, 1917.

SIR,

I have the honour to submit the Annual Administration Report of the Stores Department for the year 1916-17.

2. The late Mr. A. G. Christiansen was Storekeeper upto the time of his death on 15th July 1916. From 16th July to 8th December 1916, Mr. K. N. Ranina acted as Storekeeper and I have held the appointment from that date.

3. Although the market was in a very unsettled state throughout the whole year, no very serious difficulty was experienced in obtaining general stores from the Annual Contractors, but such was not the case with special stores imported from England.

4. The greatest difficulty has been experienced in getting stoneware pipes and fittings for the Drainage Department owing to the scarcity of ships and although S. W. pipes of Indian manufacture have not been able to pass the tests laid down for pipes of English manufacture, the Deputy Executive Engineer, Drainage, has been obliged to use them in some cases.

5. The contractors for the supply of hose canvas Europe 2½" special quality supplied very much less than the quantity stipulated for as they were unable to ship from Home principally owing to the Government having commandeered most of the output. By obtaining stocks locally the demand for this class of hose was met.

6. The contractors for the supply of Izal powder were unable to supply the stipulated quantities regularly. To cope with the demands for sanitary purposes 10 per cent. Carbolic powder was supplied by inviting quotations from time to time. The last supply of 10 per cent. Carbolic Acid powder was found defective and was rejected several times.

7. Some inconvenience was again caused during the year under review owing to the delay in supplying Katni cement by Messrs. C. Macdonald & Co. due to the Railway Co.'s inability to supply wagons for the transit of the cement. No serious delay was, however, caused to our works on this account.

8. The question of allowing some increase to the contractors who supplied stores after the outbreak of war, at their contract rate for 1914-15, which had been under consideration for the last two years, was finally decided and some increases were allowed to them with the sanction of the Standing Committee.

9. In the past ordinary stores likely to suffice for three months were kept in stock. In actual practice this system was found defective and orders had frequently to be placed on indents thus multiplying work and preventing direct importers and merchants dealing with us. The late Storekeeper had therefore arranged to stock six months' supply. As soon as the stock of any items is reduced to about a quarter's consumption, steps are now taken to replenish the same. This has greatly tended to improve the efficiency of the Department.

10. The question of locating the General Stores and the B. B. Pipe Depot in one commodious place is under consideration for years past as observed in the Report of the last year. In existing financial condition no progress can be made and the matter has to stand over for the present. In January last the Commissioner decided to put up the question for further consideration in July.

11. As in previous years the vacant plot in the yard of the B. B. Pipe Depot admeasuring 5,433 square yards was leased for cultivation for four months ending 31st October 1916 for Rs. 405, against Rs. 270 realised in the previous year.

12. The verification of stores in charge of the Storekeeper was entrusted to Mr. K. R. Vacha during the year under report. The verification resulted in a net excess of Rs. 551-3-10. Considering the number of items (*viz.*, 3,389) verified and the total receipts and issues of 1915-16 aggregating approximately Rs. 18,25,836-9-2, many of which were in small number and quantities, the Commissioner reported to the Standing Committee that the result was satisfactory.

13. The vocabulary of stores prepared by Mr. Simkins in conjunction with the late Storekeeper which was under revision as stated in the last report is now in the hands of the printers.

14. During the year under report the spare parts of meters not required for Municipal purposes were sold to the Bombay Port Trust, Calcutta Corporation and other bodies. The balance was disposed of by public auction.

15. Owing to several changes in the personnel of the Department, no satisfactory progress was made during the year in completing the list of standard samples. This question is now receiving my personal attention.

16. During the year a fixed imprest of stores was sanctioned and issued to the Superintendent, M. B. Owing however to the difficulty experienced by the Water Department in maintaining the proper account thereof, the old practice of treating the imprest as temporary has been resorted to pending settlement of allowing a permanent fixed imprest to the Superintendent, M. B.

17. The usual statement showing the annual and special contracts entered into and of important quotations called for during the year will be found in Appendices A to C attached. It will be seen from the above appendices that there have been increases in number of annual and special contracts and quotations thus entailing extra work on this office.

18. From Appendix D in which the value of stores purchased and issued during the year under review together with opening and closing balances are given, it will be seen that as compared with closing balance on 31st March 1916, there is an increase of Rs. 1,88,180-12-4 due principally (*a*) to higher contract rates consequent on war crisis, (*b*) to the stock being now maintained for 6 months' requirements against quarterly as explained above, (*c*) to the transfer of surplus stores of the Tansa Duplication Works to this Department and (*d*) to the cement kept in stock at the close of the official year for use on Drainage and Outfall works during the fair season. The gross increases aggregated Rs. 1,88,334-2-6 against which there were decreases amounting to Rs. 153-6-2.

19. Principally owing to the utilisation of the articles of surplus and obsolete stores of Drainage and Water Works by the respective Departments the value of such stores on the 31st March 1917 was reduced by Rs. 763-5-8 as compared with that of previous year.

20. The Line Suspense Stores in charge of different inspectors of Water Works Department show an increase of Rs. 2,655-2-6 on the 31st March 1917 as compared with the figures of previous year. This is due mainly to the 50ⁿ steel pipes found excess in the verification conducted by the Assistant Storekeeper as stated in the report for the last year.

I have the honour to be,

Sir,

Your most obedient servant,

E. J. HALE,

Storekeeper.

APPENDIX A.

GENERAL CONTRACTS FOR 1916-17.

Schedule No.	Name of the Article.	Name of the Contractor.
1	Axes, Pick, Hardy Patent	Messrs. Hassanalli Adamji & Co.
2	Axes, Pick, Shovels, Spades, &c.	" " "
3	Balls, Valves, &c.	" " "
4	Baskets, Bamboo	" "
5	Baskets, Cane and Cane	" Tayballi Hakimji Neterwalla.
6	Belting	" John Fleming & Co.
7	Bins, Sanitary	" Hasanalli Adamji & Co.
8	Blankets or Cumblees... ..	" Bhawoo Kashinath & Co.
9	Bolts and Nuts	" Hassanalli Adamji & Co.
10	Brooms and Ribs, Goa	" Bhawoo Kashinath & Co.
11	Brushes	" Hassanalli Adamji & Co.
13	Canvas	" "
14	Capes and Coats	" Bhawoo Kashinath & Co.
15	Carriage fittings and harness	" Hassanalli Adamji & Co.
16	Charcoal and Firewood	" D. R. Umrigar Sons & Co.
17	Cloth, Dungry	" Vithoba Rawji & Co.
18	Coats, Water-proof	" Bhawoo Kashinath & Co.
19	Crockery, Glassware & Lampware	" Hasanalli Adamji & Co.
20	Cutlery	" "
21	Electrical Goods	" "
22	Files and Rasps	" William Jacks & Co.
23	Globes, Glass Pines	" Hassanalli Adamji & Co.
24	Globes and Lanterns marked (B. M. C.)	" "
25	Grease and Oils	The Asiatic Petroleum Co., Ltd.
	Do. do.	The Vacuum Oil Co., Ltd.
26	Hardware	Messrs. Hassanalli Adamji & Co.
27	Leather Goods... ..	" " "
28	Leather Hide, Country, Europe	" " "
29	Line, Coir	" " "
30	Locks, Brass and Iron	" "
31	Metals	" Cursetji Rustomji & Co.
32	Miscellaneous Articles	" Hassanalli Adamji & Co.
33	Motor Accessories	The Automobile Co., Ltd.
34	Nails for Bullock Shoes, Pins, Shoes and Washers	Messrs. Hasanalli Adamji & Co.
35	Nails and Screws	" "
36	Nose Strings	" Bhawoo Kashinath & Co.
37	Nuts, Rivets and Washers	" Hassanally Adamji & Co.
38	Oils, Castor and Sweet	" Manji Hirjee & Co.
39	Oil, Coconut	" "
40	Oil, Kerosine and Petrol	The Asiatic Petroleum Co., Ltd.
41	Oils, Linseed and Turpentine	Messrs. Wilkinson, Heywood and Clark.
42	Oils, Lubricating	The Vacuum Oil Co., Ltd.
43	Oil, Paint, Varnish, &c.	Messrs. Wilkinson, Heywood & Clark.
44	Packing	" Hassanalli Adamji & Co.
45	Paint	" Wilkinson, Heywood & Clark.
46	Pans and Pots, Earthen	" Hassanalli Adamji & Co.
47	Pitch and Tar	" "
48	Plumbers' Stores	" "
49	Rope, Coir and Rubbers, hand.	" Bhawoo Kashinath & Co.
50	Rope, Cotton	" Hassanalli Adamji & Co.
51	Rope, Manilla	" Abdealli Samsudin & Co.
52	Rubber Goods... ..	" Hassanalli Adamji & Co.
53	Salt, Soap and Soda	" Bhawoo Kashinath & Co.
54	Shafts, Wooden	" Hassanalli Adamji & Co.

APPENDIX A—concluded.

Schedule No.	Name of the Article.	Name of the Contractor.
55	Shipchandlers' Stores	Messrs. Hassanalli Adamji & Co.
56	Steel Cast	" " Bhawoo Kashinath & Co.
57	Tarpaulin Canvas	" " Hassanalli Adamji & Co.
58	Testers Smoke	" " Hassanalli Adamji & Co.
59	Tools	" " The Dunlop Rubber Co.
60	Tubes and Tyres for Motors	Messrs. Hassanalli Adamji & Co.
61	Umbrellas	" " Williams Jack & Co.
62	Waste Cotton	" " Hassanalli Adamji & Co.
63	Wool, Lead	Mr. Meheralli Hurji.
64	Yarn	Messrs. Richardson and Cruddas.
65	Iron Castings, General	" " Karim Ayub & Co.
66	Do. Workshops	Mr. Oghadbhai Nimji Mehta.
67	Timber, General	Messrs. Bhawoo Kashinath & Co.
68	" Benteak, Calicut and Thikka logs	" " Hassanalli Adamji & Co.
69	Clothing to Peons and others	
70	Clothing for different Municipal Hospitals	
71	Hoes or Powras, Iron	

E. J. HALE,
Storekeeper.

APPENDIX B.

SPECIAL CONTRACTS FOR 1916-17.

No.	Name of the Article.	Name of the Contractor.	Amount.
			Rs. a. p.
1	Stop Tap, Bib Taps, etc. ...	Messrs. Marshall Sons & Co., Ltd.	7,661 0 8
2	Izal Powder	" Thomson & Taylor ...	9,900 0 0
3	12" C. I. Pipes	The Universal Agency Co. ...	6,616 8 8
4	Zondo Fluid	Messrs. W. Crowder & Co. ...	9,450 0 0
5	Hose Canvas, Europe, 2½" dia. X 18 ply Challenge Brand.	" John Fleming & Co. ...	1,125 0 0
6	Pipes, C. I. 3" and 4" dia. ...	" Geo. Service & Co. ...	1,225 5 0
7	Cement, Portland	" Ewart Latham & Co. ...	6,585 15 0
8	" Katni	" C. Macdonald & Co. ...	16,708 5 4
9	Hose, Rubber, of sorts	" John Fleming & Co. ...	3,564 1 0
10	Spare parts of Water Meters ...	" Garlick & Co. ...	9,031 12 1
11	Galvanized W. I. Pipes and fittings.	" W. H. Brady & Co., Ltd.	2,079 1 0
12	Wire Screening Gauge	" Turner Hoare & Co. ...	2,726 6 6
13	Pipe Depot Cultivation	Mr. Bhana Wagha	405 0 0
14	C. I. Pipes	Messrs. Macbeth Brothers & Co.	17,012 8 0
15	Stop Ferrules and Galvanized Pipes, etc.	" Garlick & Co.	3,012 8 0
16	Bass Broom Ribs	" John Fleming & Co. ...	896 4 0

APPENDIX B—concluded.

No.	Name of the Article.	Name of the Contractor.	Amount.		
			Rs.	a.	p.
17	I. R. Valve Faces	The India Rubber Gutta Percha and Telegraph Works Co., Ltd.	2,640	10	0
18	{ Hose, Canvas, Europe, 2½", 18 ply Challenge Brand.	Messrs. John Fleming & Co. ...	22,312	8	0
18A	{ Hose, Canvas, Europe, 2½" × 18 ply.	" " " ...	1,500	0	0
19	Buckets, Galvanized, of sizes ...	The Bombay Bucket Manufacturing Co.	755	0	2
20	Hose, Flaxen, I. R. Lined, D.W.C. Brand, 2½", 42 Strand.	Messrs. Turner Hore & Co. ...	7,421	14	0
21	Cement, Katni	" C. Macdonald & Co. ...	96,000	0	0
22	Vent Shafts, Galvanized and Straps Galvanized.	Mr. Mahomedalli Essabhoy ...	1,495	0	0
23	Iron and Steel	Messrs. Chaganlal & Co. ...	11,193	6	0
24	C. I. Pipes Spigot and Socket ...	" Garlick & Co. ...	589	13	0
25	C. I. Sluice Valves, 4"	" " " ...	1,250	0	0
26	Iron and Steel	" R. Hatimbhoy & Co. ...	5,735	0	0
27	Hose, Canvas, Extra Dubsub, Merryweather's Rubber Lined, 2½".	" Balmer Lawrie & Co. ...	700	0	0
28	Liquid Fuel	" Shaw Wallace & Co. ...	18,375	0	0
29	S. W. Pipes and fittings	" Macbeth Brothers & Co. ...	8,260	2	7
30	Naves and Axles	" John Fleming & Co. ...	7,105	2	0
31	Rakes, W. I. two pronged	" Alcock Ashdown & Co. ...	700	0	0
32	Steel, Mild Flat and Plates, &c...	" Chhaganlal & Co. ...	1,227	11	0
33	Buckets, Galvanized, ordinary, of sizes.	Mr. Shaikhalli Sulemanji ...	1,143	4	6
34	Two sets of Fire Station Doors fittings.	Messrs. Balmer Lawrie & Co. ...	1,570	0	0
35	Cement, Portland	" Ewart Latham & Co. ...	28,375	0	0
36	10 per cent. Carbolic Disinfectant Powder.	" Phillips & Co., Ltd. ...	1,100	0	0
37	Cement, Katni	" C. Macdonal & Co. ...	30,000	0	0
38	S. W. Pipe and fittings	The Universal Agency Co. ...	3,493	12	0
39	Cement, Bundi	Messrs. Killick Nixon & Co. ...	15,000	0	0
40	Steel Mild, Plates, of sizes	" R. Hatimbhoy & Co. ...	690	15	0
41	Oil Kerosine, 125° flash... ..	The Standard Oil Co. ...	1,900	0	0
42	Bass Broom Ribs	Messrs. W. H. Brady & Co. ...	855	0	0
43	Galvd. Iron Sheets, Steel Mild Plates, etc.	" Chhaganlal & Co. ...	2,045	8	0
44	Couplings and Checknuts Galvd., of water quality, of sizes.	" Abdeally Sumsudin & Co.	578	2	0
45	S. W. Pipes of Indian Manufacture.	Mr. A. R. Subedar	2,975	0	0

E. J. HALE,
Storekeeper.

APPENDIX C.

IMPORTANT QUOTATIONS INVITED DURING 1916-17.

Serial No.	Names of Articles.	Quantity.
1	W. I. boiler plates second hand	4 plates.
2	Bolts and nuts, W. I., of size	1½ cwt.
3	Trough feeding Iron Semi Circular	9 Nos.
4	Harness, horse, single, Europe	1 No.
5	Lantern, Tin, Dietz Junior	108 Nos.
6	Wire galvanized 7 stand	8 cwt.
7	Mackintosh pieces white	2 doz.
8	Bolts and Nuts of size	8¼ cwt.
9	Rakes, W. I., 2 pronged	200 Nos.
10	Grain Crushing Machine	1 No.
11	Locks, pad, iron galvanized	50 Nos.
12	Boiler Copper... ..	2 "
13	Teakwood Table and Chairs	3 "
14	Lanterns, Tin, Dietz Junior	23 doz
15	Bolts & nuts, nails Iron, spikes, etc.	9¾ cwt.
16	Harness, horse, single, Europe	1 No.
17	Globes, White for Dietz Lamps	300 Nos.
18	" Ruby " "	150 "
19	" " " "	270 "
20	Cloth, Hessian gunny, 45" wide	10,000 yds.
21	New Patent Lawn Sprinkler	2 Nos.
22	Lanterns, Tin, Dietz Junior	30 doz.
23	German Silver Breast Badges	40 Nos.
24	" " Neck "	7 pairs.
25	Glass sheet plain	12 Nos.
26	Tail Lamps and Hand Lamps	12 "
27	Trough feeding Iron	2 "
28	Bolts and nuts of sizes... ..	1 cwt.
29	Wheels for pipe cutter of sizes	2 doz.
30	Steel, mild, angles and flat, etc.	9 bars.
31	Lubricators Glasses	12 Nos.
32	Pipes, C. I. of sizes	9 "
33	Galvanized corrugated iron sheets	15 "
34	Asbestos Bunet joint packings	9 doz.
35	Teakwood and dealwood scantlings, planks, etc., of sizes	806 Nos.
36	" scantlings, boards, planks and battens, etc., of sizes	138 "
37	" Bentek planks, scantlings, Kailwood scantlings and beams, etc., of sizes	37 "
38	Kailwood Purlins and Rafters	88 "
39	Teakwood scantlings, planks boards, battens etc. of sizes	200 "
40	" " " " " "	233 "
41	" " " " " "	2,000 Rft.
42	" " " " " Logs of sizes	163 Nos.
43	" " " " " "	48 Cft.
44	Dealwood Ceiling Boards of sizes	300 R.ft.
45	Galvanized corrugated iron sheets	40 Nos.
46	Steel, mild, angles of sizes	265 Rft.
47	Galvd. corrugated iron sheets	42 Nos.
48	" " " " and steel mild plates etc.	58 "
49	Steel mild round of sizes	15 bundles.
50	" " " " " "	108 bars.
51	" flat " " " "	20 bundles.
52	" " " " " "	69 bars.
53	Tyre Bars	60 Nos.
54	Steel mild plates and charcoal plates, etc.	67 "
55	" " ½ round of sizes	50 R.ft.
56	Iron sheets Galvanized corrugated of sizes	34 plates.
57	Steel mild plates of sizes	5 Nos.

APPENDIX C—continued.

Serial No.	Articles.	Quantity.
57	Steel, mild, flat, of sizes	3 bars.
58	" " plates "	25 plates.
59 {	" " flat and swedish flat, etc....	5 bars.
	" " square, of sizes	5 ft.
60	Iron sheets, galvanized and corrugated, of sizes	75 Nos.
61	" " " " " " " " " " " "	36 "
62	" " " " " " " " " " " "	63 "
63	Steel, mild, round, of sizes	100 bars.
64	" " " " " " " " " " " "	20 cwts.
65	" " square " " " " " " " " " "	6 Nos.
66	" " angle " " " " " " " " " "	20 cwts.
67	" " plates " " " " " " " " " "	72 plates.
68	" " angle " " " " " " " " " "	20 cwts.
69	Corrugated iron sheets, galvanized, of sizes	96 Nos.
70 {	Steel, mild, plates, of sizes	12 "
	" " angle " " " " " " " " " "	24 ft.
71	Corrugated iron sheets, galvanized, of size	6 Nos.
72	Sulphur Roll	10 cwts.
73	10 % carbolic disinfecting powder	15 tons.
74	Hose, Canvas, Europe, special quality, 2½"	5,000 R.ft.
75	" " " " ordinary	3,000 "
76	" " " " I. R. armoured, 2" × 5 ply	30 "
77	" " " " Pipe, I. R., 1" × 3 ply	80 "
78	Rubber Tubing, 1" × 5 ply	60 "
79	Hose, Canvas, I. R. lined, Non-kinkable, 2½"	1 length.
80	" " " " " " " " " " " " " " " "	300 ft.
81	" " " " I. R. in 30 ft. lengths, 1" internal diameter × 4 ply	1 length.
82	Lead Seals of sizes	14,000 Nos.
83	C. I. Sluice valve, 3" with Tail pieces complete	10 "
84	S. W. Pipes of Indian manufacture	350 "
85	C. I. Sluice valves of size	9 "
86	C. I. Pipes of sizes	21 "
87	" " " " spigot and socket of size... ..	300 "
88	" " " " " " " " " " " " " " " "	200 "
89	S. W. Channels and Pipes, etc.	580 "
90	C. I. Soil Pipes and Bends, etc.	18 "
91	S. W. Pipes of sizes	500 "
92	" " " " " " " " " " " " " " " "	12 "
93	" " Gully Traps of sizes	60 "
94	" " Bends of sizes	250 "
95	" " Pipes " " " " " " " " " " " "	130 "
96	" " " " " " " " " " " " " " " "	250 "
97	" " Saddle Junction of sizes	50 "
98	" " Pipes of sizes	1,000 "
99	" " " " " " " " " " " " " " " "	2,000 ft.
100	Pipes, galvanized, of sizes	20,500 "
101	" " " " " " " " " " " " " " " "	270 R.ft.
102	G. I. Fittings " " " " " " " " " " " "	1,120 Nos.
103	Checknuts and elbows, galvanized water quality, of sizes	2,012 "
104	Pipes, galvanized, of sizes	250 ft.
105	" " " " " " " " " " " " " " " "	1,500 "
106	" " " " " " " " " " " " " " " "	2,500 "
107	" " " " " " " " " " " " " " " "	1,650 "
108 {	G. I. Couplings	50 Nos.
	" " Nipples and Reducing Couplings	85 "
109	" " Checknuts of sizes	1,000 "
110	3" 6 hour Diagram for Deacon Patent Waste Detecting Meters.	1,000 "

E. J. HALE,

Storekeeper.

APPENDIX D.

Particulars.	General Stores.	Surplus and Obsolete Stores.	Line Suspense Account.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Value of Stores in hand on 1st April 1916	2,42,517 2 10	3,945 13 8	86,519 14 6	3,32,982 15 0
Value of Stores Receipts, including transfer during 1916-17.	9,05,189 8 5	545 0 0	4,349 6 0	9,10,083 14 5
Total value ...	11,47,706 11 3	4,490 13 8	90,869 4 6	12,43,066 13 5
Less—				
Value of Stores issued, including transfer during the year 1916-17.	7,16,992 2 10	1,308 5 8	1,694 3 6	7,19,994 12 0
Balance ...	4,30,714 8 5	3,182 8 0	89,175 1 0	5,23,072 1 5
Discrepancies adjusted as per Clause 29 of the Stores and Stores Audit Manual against Rate Adjustment Account.	16 9 3	.....	.....	16 9 3
Value of Stores on the 31st March 1917	4,30,697 15 2	3,182 8 0	89,175 1 0	5,23,055 8 2

E. J. HALE,
Storekeeper.

LICENSE DEPARTMENT.

I have the honour to submit the Annual Report for the year 1916-1917. Mr. P. P. Vagh was in charge of the License Department during the year except for a short period from 22nd May 1916 to 2nd July 1916 when I acted for him. Mr. P. P. Vagh retired on 1st April 1917.

2. During the year under report, 10,184 licenses were issued, the total Revenue collected being Rs. 1,13,858-0-0, *vide* attached Statements marked A and B. Due to the transfer of milk licensing to the Health Department there was a decrease of 2,190 in the number of licenses issued although the revenue shows an increase of Rs. 336-4-0.

3. The following table shows the revenue collected during the last ten years:—

Official year.				No. of Licenses issued.	Revenue from License fees.			Remarks.
					Rs. a. p.			
1907-08	...	...	...	6,991	83,347	8	0	
1908-09	...	...	...	7,163	84,646	8	0	
1909-10	...	...	...	7,204	85,371	0	0	
1910-11	...	...	...	7,540	87,806	8	0	
1911-12	...	...	...	8,119	1,00,486	0	0	
1912-13	...	...	...	8,336	1,09,896	0	0	
1913-14	...	...	...	9,334	1,14,282	0	0	
1914-15	...	...	...	11,967	1,09,706	2	0	} During these two years the fees were reduced.
1915-16	...	...	...	12,374	1,13,521	12	0	
1916-17	...	...	...	10,184	1,13,858	0	0	

4. The fees remaining to be recovered for the year amounted to Rs. 440-4-0 as detailed below:—

Ward.						No. of Cases.	Total amount.		
							Rs. a. p.		
A	...	...	...	...	...	4	28	0	0
B	...	...	...	...	...	3	7	4	0
C	...	...	...	...	...	24	78	4	0
D	...	...	...	...	...	42	133	12	0
E East	...	...	...	...	...	9	29	12	0
E East Br.	...	...	...	...	...	13	78	0	0
E West	...	...	...	...	...	10	23	4	0
F	...	...	...	...	...	6	33	4	0
G	...	...	...	...	...	6	28	12	0
						117	440	4	0

5. The miscellaneous receipts amounted to Rs. 66-4-0, as detailed below:—

			Rs. a. p.		
For the production of records in Courts	...	...	40	0	0
For inspection of Office records	...	...	12	4	0
For duplicate copies of Licenses, &c.	...	...	14	4	0
Total	...	Rs. 66	4	0	

6. In 104 cases refunds of License fees amounting to Rs. 1,426-14-0 were allowed.

7. The draft new By-laws in respect of Horse and Bullock stables are now under the consideration of the Corporation.

8. Gunny bags and methylated spirit (over 10 gallons) became licensable under Section 394 of the Municipal Act as amended by Act VI of 1916 and the keeping of cotton in or upon any building intended for or used as a dwelling or within 15 feet of such building, in pressed bales, or boras or loose, in quantity exceeding 4 cwts. is prohibited. The amendment was published in the *Government Gazette* of 27th September 1916.

9. The total number of prosecutions during the year against persons carrying on trades, subject to licenses, without licenses, and for infringing the conditions of licenses, was 4,338 as detailed below :—

COURT.	No. of cases in which accused convicted and fined.	No. of cases in which accused warned and discharged.	No. of cases in which accused acquitted.	No. of cases with-drawn.	Post-poned for 1916-17.	Cases filed during the year.	Post-poned for 1917-18.	Fine recovered.
								Rs. a.
Chief Presidency Magistrate ...	299	64	7	922	8	1,305	15	6,944 8
Third Presidency Magistrate ...	379	85	...	1,046	11	1,537	17	5,347 8
Fourth Presidency Magistrate ...	529	98	4	771	14	1,424	13	7,422 4
Totals ...	1,207	247	11	2,739	33	4,266	45	19,714 4

There were 1,454 convictions, in 1,207 cases, fines were inflicted aggregating Rs. 19,714-4-0. The heaviest fines inflicted were on account of bullocks kept in excess and without licenses, viz. :—

Cases.	Amount of fines.
318	Rs. 8,189.

I have the honour to be,
 Sir,
 Your most obedient servant,
 H. WALD,
Superintendent of Licenses.

No. of Licenses.	Nature of Trade.	License fees.
		Rs. a.
43	Aerated Water (manufacturing)	940 0
13	Ashes	147 8
187	Bakeries... ..	3,740 0
2	Bones	20 0
8	Bricks (manufacturing) (hand-made)	40 0
4	Candles (do.) (do.)	78 12
13	Carbide of Calcium (retail)	65 0
7	Do. do. (wholesale)	190 0
1	Catgut	15 0
642	Charcoal	5,450 12
144	Chemical preparations	2,332 8
229	Cloths in Indigo and other colours dyeing (hand power)	1,732 4
10	Do. do. do. (mechanical power)	330 0
383	Coal and Coke	5,083 8
82	Cocoonut Fibre, Flax, Hemp and Jute... ..	936 12
49	Cotton (cleaning)	745 0
256	Cotton Seed Refuse or Waste	4,490 0
53	Cow-dung Cakes (manufacturing)	423 12
104	Dammer, Tar or Pitch	1,196 4
1	Dynamite	30 0
2	Eating Houses	12 8
32	Fat and Tallow	461 4
5	Fins (dried)	67 8
36	Fish (do.)	423 0
142	Fireworks (retail)	535 0
92	Do. (wholesale)	756 4
224	Firewood (retail)	429 0
713	Do. (wholesale)	8,262 12
9	Gas (manufacturing)	240 0
3,466	Carried over	39,174 4

Yearly total of License fees recovered during 1916-1917—*concluded.*

No. of Licenses.	Nature of Trade.	License fees.
		Rs. a.
3,466	Brought forward	39,174 4
6	Ghee (manufacturing)	65 0
236	Grain (parching)	340 8
60	Gunpowder (retail)	270 0
2	Do. (wholesale)	66 4
213	Hay, Straw and Grass	3,649 12
28	Hides and Skins (dried)	401 4
21	Do. raw (keeping)	456 4
42	Do. (tannery)	3,742 8
19	Horns and Hoofs	315 0
30	Lime for burning (lime kiln)	1,362 8
877	Matches (retail)	1,287 4
72	Do. (wholesale)	4,989 12
92	Do. (Bengal lights) (retail)	125 0
3	Do. (do.) (wholesale)	48 4
209	Metals (casting)	2,648 12
923	Noisy Trades	2,025 0
652	Oil (keeping)	9,203 12
2	Paper (manufacturing)	30 0
101	Permits under Section 390	2,525 0
49	Petroleum (non-dangerous) (under Petroleum Act) (kerosine oil) (retail)	132 4
73	Do. (non-dangerous) (under Petroleum Act) (kerosine oil) (wholesale)	1,862 8
42	Do. (dangerous) (under Petroleum Act)	121 12
21	Pottery (manufacturing)	61 8
29	Rags	397 8
31	Salt-petre	155 0
27	Smelteries	285 0
29	Soap (manufacturing)	626 4
25	Sugar Refineries	625 0
62	Stables for Horses	3,223 12
126	Do. Milch Cattle	9,075 0
157	Do. Bullocks	2,266 4
15	Do. other four-footed animals	15 0
2,147	Timber	19,348 0
107	Turpentine (retail)	522 8
41	Do. (wholesale)	606 4
41	Whistles (steam)	397 8
51	Wool	918 12
.....	Licenses transferred	147 0
10,127	Total Rs. ...	1,13,512 12

B

Statement showing the amount of License fees for 1915-1916 recovered in 1916-1917.

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
1	Ashes	3 12
3	Charcoal...	6 12
1	Chemicals	5 0
1	Coal and Coke...	2 8
3	Cocoanut Fibres, &c.	16 4
2	Cotton Cleaning	20 0
4	Cloths in Indigo and other colours dyeing (hand power)	38 12
1	Fish	3 12
1	Firewood (retail)	1 0
6	Do. (wholesale)	17 8
3	Grain (parching)	3 0
2	Hay, Straw and Grass	30 0
1	Matches (retail)...	1 0
1	Do. (wholesale)	6 4
4	Metals (casting)...	15 0
6	Noisy Trades	18 4
3	Oil	50 0
2	Stables for Milch Cattle	52 8
1	Turpentine (wholesale)	15 0
10	Timber	24 0
1	Whistle Steam	10 0
.....	Licenses transferred	5 0
57	Total Rs. ...	345 4

Summary of Income for 1916-1917.

No. of Licenses issued.	Official year during which collection was made.	License fees.	Remarks.
		Rs. a.	
57	Income for 1915-16 during 1916-17.	345 4	
10,127	Income for 1916-17 collected from 1st April 1916 to 31st March 1917	1,13,512 12	
10,184	Total	1,13,858 0	

H. WALD,
Superintendent of Licenses.

MARKETS.

REPORT OF THE SUPERINTENDENT OF MARKETS AND SLAUGHTER HOUSES RECEIVED UNDER HIS No. M/72, DATED 15TH JUNE 1917.

SIR,

I have the honour to submit the Annual Report of the Markets and Slaughter Houses for the year 1916-17.

2. I am glad to be able to say that the total receipts from the Markets and Slaughter Houses during the year under report, amounted to Rs. 6,22,859-2-6, against Rs. 5,88,813-8-6, showing an increase of Rs. 34,045-10-0.

3. The Food Prices Committee continued to meet every week during the year under report as was the case in the previous year, to settle the prices of Grain, Ghi, Sugar, &c., to which publicity was given and which I attended throughout the year and rendered every possible help in ascertaining the prevailing wholesale and retail prices of different articles.

4. Frequent references were received from the Supply and Transport Officer from time to time during the year under report as regards quotations of certain articles, and the required information was supplied after making careful enquiries. Also I continued to render assistance to the Women's Branch of the War Fund.

5. The following are the contrasted Statements marked A to D, showing the total receipts in detail under the various heads with the reasons for the increase or the decrease :

A

Statement of stalls, rents and squatters' fees collected departmentally in detail contrasted with those in the previous year :—

Names of the Markets.	Total number of stalls.	Average number of stalls vacant.	Stall rents.			Squatters' fees collected departmentally.			Total.		
			Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Colaba Market	70	61	352	0	0	384	0	0	736	0	0
Fort Market	266	90	6,409	4	0	123	8	0	6,532	12	0
A. O. Fruit and Vegetable Market ...	560	21	77,481	3	0	335	6	0	77,816	9	0
Do. Fish and Mutton Market	119	39	9,142	13	0	.....	.....	.....	9,142	13	0
Do. Mutton (New) Market	68	20	2,924	0	0	.....	.....	.....	2,924	0	0
Do. Beef Market	81	1	11,724	0	0	.....	.....	.....	11,724	0	0
Godowns	27	.....	7,316	0	0	.....	.....	.....	7,316	0	0
Fowl Rooms	29	1	3,561	0	0	.....	.....	.....	3,561	0	0
Bird Shops	18	8	1,393	2	0	.....	.....	.....	1,393	2	0
Erskine Road Fruit and Vegetable Market (Old)	448	68	32,091	7	0	2,940	6	0	35,031	13	0
Do. do. (New)	118	47	5,467	13	0	.....	.....	.....	5,467	13	0
Do. Mutton Market	114	30	8,649	4	0	.....	.....	.....	8,649	4	0
Bhuleshwar Market	176	11	15,218	8	0	1,905	8	0	17,124	0	0
Pedder Market	40	6	1,588	9	0	309	5	0*	1,588	9	0
						Fish area.			309	5	0
Kamatipura Market	48	2	2,431	5	0	.....	.....	.....	2,431	5	0
Pork Market	2	.....	100	0	0	.....	.....	.....	100	0	0
DeLisle Road Sheep Market	50	.....	7,566	0	0	.....	.....	.....	7,566	0	0
Fergusson Road Market	31	1	2,014	8	0	2,117	12	0	4,132	4	0
Parbhadevi Road Market	25	2	785	5	0	2,085	2	0	2,870	7	0
Elphinstone Road Market	45	15	1,378	13	0	533	4	0	1,912	1	0
	2,335	423	1,97,594	14	0	10,424	14	0	2,08,019	12	0
						309	5	0	309	5	0
Total	in 1915-1916		1,94,357	1	6	10,366	14	0	2,04,623	15	6

* Fees collected departmentally, the contractor having failed to pay the instalments.

6. From the above statement it will appear that there is an increase of Rs. 3,705-1-6 in stall rents and squatters' fees collected departmentally, as compared with those in the previous year. This result shows that in spite of the War, the trade in the Markets continued to be as usual.

B

Statement showing the squatters' fees from Municipal Fish Markets, Scale Fees in the Crawford Market compound, and the Fair Ground Rent and the Feeding Fees at the Bandora Slaughter Houses recovered from the contractors during the year under report as compared with those in the previous year:—

Particulars.	1916-17.	1915-16.
	Rs. a. p.	Rs. a. p.
Colaba Market	1,300 0 0	1,150 0 0
Fort Market	1,950 0 0	2,000 0 0
A. C. Beef and Fish Markets	9,600 0 0	9,700 0 0
Erskine Road Fish Market	23,900 0 0	23,200 0 0
Pedder Market	1,650 0 0	1,975 0 0
Kamatipura Market	1,825 0 0	1,925 0 0
Fergusson Road Market	1,775 0 0	1,775 0 0
Parbhadevi Road Market	1,350 0 0	1,150 0 0
Elphinstone Road Market	700 0 0	750 0 0
Amount of deposit paid by the Elphinstone Road Market, contractor forfeited to the Municipality ... ..	.....	76 10 0
Total Squatters' Fees	44,050 0 0	43,701 10 0
Scale Fees at the A. C. Market compound	7,500 0 0	7,500 0 0
Fair Ground Rent and Feeding Fees	93,700 0 0	80,500 0 0
Grand Total	1,45,250 0 0	1,31,701 10 0

7. The above statement shows an increase of Rs. 13,548-6-0 over the previous year, chiefly under the head of "Fair Ground Rent and Feeding Fees." This is due to the fact that when this right was put up to auction for the year under report, it was anticipated that the importation of animals to Bandora would be considerably larger to meet the requirement of the S. & T. Department, the War Hospitals and the shipping in general. This led to very keen competition amongst the bidders with the result that the bid went up to Rs. 93,700 for the year under report against Rs. 80,500 for the previous year. The following statement shows the number of animals brought to the Fair Ground during the year under report, and the number rejected as unfit for slaughter, compared with those in the previous year:—

Year.	Animals brought to the Fair Ground.			Animals rejected.		
	Buffaloes.	Horned Cattle.	Sheep and Goats.	Buffaloes.	Horned Cattle.	Sheep and Goats.
1916-17 ...	7,602	67,637	860,268	16	710	24,260
1915-16 ...	8,402	56,418	735,486	54	608	22,047

8. The right of collecting squatters' fees in the Pedder Market realized Rs. 2,200 for the whole year, but the contractor having failed to pay his instalments from 1st January 1917, the fees were collected departmentally from 26th January 1917. The total amount so collected amounted to Rs. 316-10-0 against the actual amount of three instalments, viz., Rs. 550 recoverable from the contractor, leaving a balance of Rs. 233-6-0. The contractor has paid a deposit of Rs. 185, which is forfeited to the Municipality. So the total loss in this respect is Rs. 48-6-0, which amount will have to be written off.

C

Comparative statement showing the revenue from other sources, comprising the heads "Verifying Weights and Measures," Garden Produce, Price Current, &c. :—

Particulars.	1916-17.	1915-16.
	Rs. a. p.	Rs. a. p.
Verifying Weights and Measures	1,318 1 0	1,043 3 0
Garden Produce	9 13 0	2 8 0
Prices Current	62 11 6	84 6 0
Sale-proceeds of meat and animals seized under Section 412 ...	18 0 0	58 14 0
Sale-proceeds of meat vans cast bullocks	644 0 0	528 0 0
Sale-proceeds of manure	43 8 0	66 0 0
Fees for producing Office records, Inspection fees, &c. ...	.....	10 0 0
Sale-proceeds of copies of Bye-laws	0 4 0	0 6 0
For the right of removing dead animals from the Slaughter Houses compound	200 0 0	200 0 0
Miscellaneous	26 4 0	7 4 0
Total	2,322 9 6	2,000 9 0

9. The above statement calls for no remarks.

D

Slaughter fees, Butcher's license fees, &c.

Particulars.	1916-17.	1915-16.
	Rs. a. p.	Rs. a. p.
Slaughter fees	2,42,429 8 0	2,28,531 6 0
License fees... ..	15,360 0 0	15,128 0 0
Ground rent	264 0 0	264 0 0
Chawl rent	2,904 0 0	2,904 0 0
Proceeds of blood from the contractor	6,000 0 0	3,660 0 0
Total	2,66,957 8 0	2,50,487 6 0

10. In the above statement the slaughter fees show an increase of Rs. 13,898-2-0. This is due to the fact that a considerably large number of animals, both horned cattle and sheep and goats, were slaughtered during the year, to meet demands from the Commissariat Department for extra quantity of meat for expeditionary forces and for War Hospitals. The following statement shows the total number of animals of each description—slaughtered or otherwise disposed of—compared with those in the previous year.

Description.	1916-17.		1915-16.	
	Number.	Amount of Slaughter fee.	Number.	Amount of Slaughter fee.
		Rs. a. p.		Rs. a. p.
Buffaloes	7,565	75,650 0 0	8,371	83,760 0 0
Cows, bullocks and calves	64,846	48,634 8 0	53,229	40,674 12 0
Sheep and goats (for Bombay)	700,185	87,528 2 0	6,00,908	75,112 14 0
Do. (for Mahim and Bandra)	51,470	3,216 14 0	44,372	2,778 4 0
Pigs slaughtered at Arthur Road Slaughter House	1,165	1,165 0 0	1,138	1,138 0 0
Piglings Do. do. do.	8	0 12 0	17	4 4 0
Pigs (private slaughter)	21	42 0 0	24	48 0 0
Piglings (do.)	145	36 4 0	107	26 12 0
Live horned cattle removed to Bombay	1,455	7,275 0 0	1,556	7,780 0 0
Live sheep and Goats removed to Bombay	16,132	8,066 0 0	11,646	5,823 0 0
Permits issued for private slaughter of sheep	22	11 0 0	30	15 0 0
Live sheep and goats removed by the Padkarees for disposal at the LeLisle Road Sheep Market	21,618	10,809 0 0	22,751	11,375 8 0
Total slaughter fee ... ..	.....	2,42,429 8 0	.....	2,28,531 6 0

11. In the statement E is shown the financial results of the working of each market during the year under report, that is gross receipts and expenditure of each market and the percentage on the original cost of the market building plus the cost of any addition made to the building during the year. The percentage on the total income and expenditure of all the markets comes to 8·74 per cent. which is very satisfactory.

E

Statement showing the Financial Result of the Municipal Markets during the year 1916-17 :—

Names of Markets.	Original Cost.	Additions, if any, made during the year.	Total Cost.	Gross Receipts.	Expenditure.	Net Receipts.	Percentage on the Cost.	Remarks.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.	
Colaba Market	93,393 0 0	....	93,393 0 0	2,036 0 0	1,287 13 11	748 2 1	·80	
Fort do.	1,22,600 0 0	....	1,22,600 0 0	8,482 12 0	3,658 5 6	4,824 6 6	3·93	
Crawford Market	7,17,949 15 8	....	7,17,949 15 8	1,30,977 8 0	40,083 11 11	90,893 12 1	12·66	
Erskine Road Market	5,74,727 5 6	....	5,74,727 5 6	78,048 14 0	14,425 11 3	58,623 2 9	10·20	
Bhuleshwar do.	3,67,613 1 9	....	3,67,613 1 9	17,124 0 0	4,467 10 7	12,656 5 5	3·44	
Pedder do.	52,630 0 0	....	52,630 0 0	3,547 14 0	1,907 13 7	1,640 0 5	3·11	
Pork do.	5,500 0 0	....	5,500 0 0	100 0 0	444 5 8	Loss 544 5 8	Loss 6·25	
DeLisle Road Sheep Market	25,000 0 0	....	25,000 0 0	7,566 0 0	3,558 6 8	4,007 9 4	16·02	
Fergusson Road do.	22,669 0 0	....	22,669 0 0	5,907 4 0	1,579 6 4	4,327 13 8	19·08	
Parbhadevi Road do.	18,894 15 1	....	18,894 15 1	4,220 7 0	2,266 5 6	1,954 1 6	10·84	
Elphinstone Road do.	29,266 15 4	....	29,266 15 4	2,612 1 0	2,364 0 8	248 0 4	·84	
Kamathipura do.	50,691 0 0	....	50,691 0 0	3,256 5 0	2,631 5 4	1,724 15 8	3·40	
Total	20,80,985 5 4	....	20,80,985 5 4	2,69,879 1 0	78,675 0 11	1,81,648 5 9	....	
Deduct Loss ..						344 5 8		
Net Receipts ..						1,81,304 0 1		

12. During the year under report, 808 mutton carcasses and 85 beef carcasses were found diseased and cystic at Bandora on inspection and were consequently destroyed.

13. The fines inflicted by the Presidency Magistrates for the infringement of the provisions of the Municipal Act and the Bye-laws pertaining to the Markets, during the year under report, amounted to Rs. 1,597-8-0 against Rs. 1,258-6-0 in the previous year. This total amount includes fines of Rs. 1,491-8-0 for the importation of contraband meat, (Section 412 (1)), the balance of Rs. 106 being for infringing other sections of the Act.

14. Steps were taken, as usual, to destroy articles of food exposed for sale in the different markets that were found unwholesome. The following table shows the quantity of the various articles destroyed during the year under report :—

Meat (Bandora and Bombay)	14,759½ lbs.
Fish	357,106 „
Fruit	24,720 „
Vegetable	14,238 „
Total	410,823½ lbs.

15. The quantity of contraband meat seized and destroyed during the year under report was 5,970 lbs. against 3,596 lbs. in the previous year.

16. The supplies of mutton, beef, fish, fruit, vegetable, &c., were as usual up to the mark.

17. I am glad to report that there was no appreciable rise in the price of local food stuff during the year except the usual fluctuation.

My staff worked satisfactorily.

I have the honour to be,

Sir,

Your most obedient servant,

L. W. MICHAEL,

Superintendent of Markets.

EDUCATIONAL.

REPORT OF THE SCHOOLS COMMITTEE FORWARDED BY THE COMMITTEE'S
SECRETARY UNDER HIS No. 2660, DATED 10TH JULY 1917.

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 11th June 1917.

THE ADMINISTRATION REPORT OF THE SCHOOLS COMMITTEE
FOR 1916-1917.

I. The Committee.

1. The undermentioned gentlemen were the members of the Schools Committee at the commencement of the year under review:—

Chimanlal H. Setalvad, Esq., B.A., LL.B., <i>Chairman.</i>	Dr. Jehangir J. Cursetji, M.D.
The Hon. Sir Ibrahim Rahimtoola, Kt., C.I.E.	Ramchandra Bhaskar Mantri, Esq., J.P.
The Hon'ble Sir Dinshaw Edalji Wacha, Kt.	Dr. Nadirshaw H. E. Sukhia, L.M.&S. L.V.Sc., F.R.S.I. (London), J.P.
N. V. Mandlik, Esq., B.A., LL.B.	Dr. Moreswar Chintaman Jayle, J.P.

2. The number of the members of the Schools Committee having been increased to 12, under the City of Bombay Municipal Amendment Act VI of 1916, there were no retirements during the year and the undermentioned four gentlemen were elected additional members, with effect from 1st January 1917:—

Mirza Ali Mohammed Khan, Esq., M.A., LL.B.
Hiralal Dayabhai Nanavati, Esq., B.A., LL.B.
F. A. M. H. Vincent, Esq., M.V.O.
Ramkrishna Shrikrishna Navalkar, Esq., B.A., LL.B.

3. The year's term of the office of the Chairman expiring with the calendar year 1916, Mr. Chimanlal H. Setalvad, the Chairman, was unanimously re-elected in January 1917.

4. Mr. D. G. Padhye, M.A., continued to hold the office of the Secretary of the Committee throughout the year.

II. General Progress and Summary.

5. The steady and substantial progress all-round, which had marked the administration of the last year, was continued in the year under review. The noteworthy features of the year under report are succinctly enumerated below:—

(a) Twelve new schools were opened during the year, bringing the total number of Municipal Schools to 195. Six of them were Boys' Schools and six Girls'. Two

Special Classes were also opened, one of them for Gujarathi Boys at the Sion Marathi Boys' School and the other for Factory Boys at the DeLisle Road Marathi School. (b) The total expenditure and receipts amounted to Rs. 5,68,398 and Rs. 5,51,430 respectively, the Municipal Funds and the fees collected contributing Rs. 5,10,000 and Rs. 40,516 towards the latter amount. The corresponding figures for the previous year were Rs. 5,02,173, Rs. 5,01,682, Rs. 4,62,000 and Rs. 37,681 respectively. (c) The total number of pupils in the Municipal Schools on 31st March 1917 was 23,987, as against 21,669 on the corresponding date of the previous year. The monthly average on the rolls rose from 20,221 to 22,829. The percentage of rise in the two cases was 11 and 13, respectively. It is interesting to note that the number of pupils in the 140 private schools, to which "Grant-in-aid" was given in the year under review, was only 15,623 on 31st March 1917 and showed a rise of less than one per cent. on the 15,536 pupils, that attended on the corresponding date of the last year the 132 schools, to which grant was then given. (d) To cope with the increased numbers and secure greater efficiency of teaching, 121 new teachers were added during the year under review, bringing the total to 924. (e) Two Music teachers, two Sewing mistresses, two Drill masters, and two Drawing teachers were added to the existing staff for special teaching. (f) With a view to impart efficient instruction in the prescribed English in the 4th standard classes in the Girls' Schools, five Special Lady Teachers for the subject were appointed during the year. (g) The work of guiding and supervising the instruction given in Municipal Schools claimed the special attention of the four Superintendents, who also carried on the Annual Examinations of all the classes in the Municipal Schools, besides co-operating with the officers of the Government Educational Department in conducting the Public Fourth Standard Vernacular Examination of the City. (h) Out of the 1,813 pupils that appeared from the Municipal Schools in the said Fourth Standard Examination, 1,391 came out successful, showing the highly satisfactory percentage of 77. (i) Urgent representations were made for the pushing through of the 10 lakhs programme for the erection of school buildings at the joint cost of the Government and the Corporation. The laying out of small gardens in the compounds of 5 Municipal Schools, having buildings of their own, was begun. Mention may here be made of an offer made by the Honourable Sir Ibrahim Rahimtoola, Kt., to bear the cost of a building for accommodating a Municipal Dispensary and a school on an Improvement Trust plot at the Sandhurst Road, the negotiations in regard to which have not yet been completed. (j) Strenuous endeavours to improve the housing and conveniences of the various schools were continued throughout the year. 25 schools were removed to better premises. For some of these, were secured newly built premises. Additional accommodation was rented for 32 more schools. Efforts in this direction will be continued but it may be mentioned that with only about a dozen exceptions due to peculiar circumstances, the Municipal Schools may now be regarded as satisfactorily located on the whole. At least half of them can be said to be very well located indeed. (k) The furniture and other equipment of the schools were considerably improved during the year, old and useless deadstock being disposed of and over Rs. 20,000 being spent in supplying new furniture, charts, pictures, magazines, books and other educational requisites of various kinds, some useful for boys and others for teachers. (l) To secure improved conservancy, the fixed monthly contingency grants of 51 schools were raised by Rs. 900 per annum. (m) Arrangements were made to put into operation on 1st March 1917 a new scheme, approved of by the Corporation, for the Medical Examination of Municipal school children, to be carried on for 3 years as a further experiment, the new feature being a systematic intimation to the parents of the ailments discovered and special arrangements for their treatment at Municipal Dispensaries. (n) The education of the poorer classes claimed particular attention. The maximum percentage of free studentship allowed was raised from 15 to 30 in 16 Marathi and 5 Gujarathi Schools, and a special free Factory Boys' Class was opened in the DeLisle Road Marathi School. The number of pupils in the 16 Mill hands and Depressed Class schools rose from 1,641 to 1,804. (o) Rs. 1,824 were spent during the year towards 45 ordinary scholarships for girls and pupils belonging to Depressed and Backward classes and 18 Middle School scholarships. Prizes of the value of Rs. 4,102 were awarded to the school children from the Municipal Funds and Rs. 294 from the income of the Prize Funds held in Trust by the Committee. (p) Special efforts were continued to increase the proportion of Trained Teachers. Their number rose during the year from 340 to 409 out of a total of 924 teachers. Every trained teacher applicant was welcomed. Fifty-six stipendiaries were maintained at the Ahmedabad and Poona Training Colleges. The Committee's Gujarathi Training Class for Males and the Urdu Training Classes for Males and Females were conducted with success, 23 out of the students passing various Training examinations. Other inducements were also offered. In the result, 74 persons from amongst the Committees stipendiaries and teachers obtained Training certificates during the year. (q) The policy of improving the status and prospects of teachers and fostering in them zeal

and interest in their work was continued with good results. The Triennial promotions due in the year to Trained teachers were assessed liberally and came to an increase of Rs. 1,365 per mensem in their salaries, whilst Rs. 287 per month represented the annual promotions to the Untrained teachers. An old standing grievance of Untrained Urdu teachers of long standing, who had entered the service in times when there was no training certificate examination in Urdu and who though occupying the posts of Headmasters, got the same pay as other Untrained teachers, was removed, Rs. 2-1-5 per mensem being granted as a Special Allowance to them. Whilst good work was rewarded, a dozen cases of faulty or irregular conduct on the part of teachers were made the subject of disciplinary measures calculated to maintain a proper standard of efficiency in the school staff. (r) Rs. 65,208 were given during the year under review, as Grant-in Aid to 140 schools as against Rs. 58,780 given to 132 schools in the previous year. Two of the old schools registered for the grant were closed, whilst ten new ones were placed on the list for a total assessment of Rs. 1,719. The grants of 30 schools were re-assessed and raised by sums aggregating to Rs. 4,792. (s) The policy of helping private educational institutions of a philanthropic kind by lending to them gratis the use of Municipal School premises was freely expanded, 14 new permissions being given in the course of the year. The number of such institutions thus rose to 47, out of which 26 were Night Schools with about 1,500 pupils on the rolls. (t) During the year under review, two large donations, offered and accepted by the Corporation in previous years, duly materialized. One was the gift of Rs. 25,000 made by Bai Valibai, widow of Sheth Vallabhdas Vishram Mowji. A Sanskrit school maintained by her has been under the terms of the gift, taken over by the Schools Committee and amalgamated with the Municipal Gujarathi Girls' School located in Anantwadi, which is now called the "Valibai Girls' School" and 50 per cent. of its pupils are allowed as free students. A sum of Rs. 11,000 plus Rs. 860 interest, was received as the result of High Court Proceedings in fulfilment of a bequest made by the late Mr. Parmanand Raja. The Durgadevi Marathi Boys' School is now named after him. The funds of both these donations have been invested as Trust Funds in the Committee's hands.

Smaller donations were also made to various schools during the year to the extent of about Rs. 500 in books and other articles and Rs. 750 in cash for prizes to the children or for the school libraries or museums. Of the donations, Rs. 101 came from Gokuldas Jadhavji, a like amount from Mr. Dwarkadas Goverdhandas and Rs. 50 from Bai Meherbai H. Kolah.

A separate and appreciative mention has to be made of a novel philanthropic effort of the Seva Sadan Society of Bombay, connected with our schools. During the year under review, they have undertaken the feeding (light refreshments in the recess hour) of poor and necessitous children in one Marathi Boys' School, one Marathi Girls' School and one Urdu Boys' School, the Schools Committee bearing the cost of the incidental arrangements. (u) The "Belgian Children's Day" was fittingly observed in the Municipal Schools, Rs. 1,400 being the total amount collected. In August last, the War Anniversary was duly celebrated, and the Schools were given a holiday on the occasion of His Excellency the retiring Viceroy's departure from India. The schools were also closed on 23rd January 1917 as a tribute to the memory of the Hon. Mr. W. H. Sharp, M.A., the late Director of Public Instruction of the Presidency. (v) During the year an important interview took place at the instance of the Collector of Bombay, between the Schools Committee, the Director of Public Instruction and three representatives of the Mill-owners' Association in regard to the education of Factory Children. The active co-operation of the Mill-owners, as the necessary condition for success, having been recognized, it was agreed that the Schools Committee should open schools at places selected by the Mill-owners, the latter undertaking to take measures by way of offering special inducements to encourage factory children to attend these schools. (w) It may be mentioned, by way of concluding the above record of the Schools Committee's work during the year, that it made 11 reports, some of them elaborate and detailed, on various subjects of importance, at the instance either of Government or the Corporation or its Committees, a list whereof is given in Appendix C.

III. Municipal Schools and Attendance.

6. The following table gives a summary of the total number of Municipal Schools of all descriptions, with the aggregate number of pupils thereat for the past two years. The total increase in the number of schools was 12, out of which 4 were Marathi Girls', 1 Gujarathi Girls', 1 Urdu Girls', 3 Marathi Boys', and 3 Urdu Boys' Schools. One Gujarathi

Class was attached to the Sion Marathi Boys' School and a Special Factory Boys' Class was attached to the DeLisle Road Nirashrit Free Mill School:—

CLASSES OF SCHOOLS.							MUNICIPAL.			
							1916-1917.		1915-1916.	
							Schools.	Pupils.	Schools.	Pupils.
MARATHI.										
<i>Day Schools—</i>										
Middle Schools	...	...	...	...	...	...	3	343	3	270
Primary for boys	...	...	...	...	...	...	60	9,659	57	9,130
Do. for girls	...	...	...	...	...	...	27	3,077	23	2,767
Total of Marathi Schools							90	13,079	83	12,167
GUJERATI.										
<i>Day Schools—</i>										
Middle Schools	...	...	...	...	...	...	1	82	1	66
Primary for boys	...	...	...	...	...	...	31	3,651	31	3,548
Do. for girls	...	...	...	...	...	...	18	2,020	17	1,846
Total							50	5,753	49	5,460
<i>Night Schools</i>	...	...	...	...	...	...	1	11	1	28
Total of Gujerati Schools							51	5,764	50	5,488
URDU.										
<i>Day Schools—</i>										
Middle Schools	...	...	...	...	...	...	...	...	...	...
Primary for boys	...	...	...	...	...	...	43	4,201	41	3,276
Do. for girls	...	...	...	...	...	...	7	836	6	655
Total							50	5,037	47	3,931
<i>Night Schools</i>	...	...	...	...	...	...	4	107	3	85
Total for Urdu Schools							54	5,144	50	4,014
Grand total of Marathi, Gujerati and Urdu Schools							195	23,987	183	21,669

7. The aggregate number of 23,987 pupils shown above was the number on the rolls on the 31st March 1917. The monthly average on the rolls was 22,829 as against 20,221 for the previous year. The average monthly attendance was 17,649 as against 15,934. It will be observed that the rise was confined mostly to the Marathi and the Urdu Schools, probably because, there is not scope for similar expansion of Gujerathi pupils.

8. The total number of the Municipal Boys' Schools including four Anglo-Vernacular Schools and five Night Schools was, as shown in the above table, 143 and that of the Girls' Schools 52. The total attendance, in the former, was 18,054 and in the latter 5,933.

9. It may be mentioned, however, that girls are allowed to attend in several of the Boys' Schools, particularly in the Urdu Schools, and some Girls' Schools have on their rolls

boys too. Thus the 18,054 pupils of the 143 Boys' Schools consisted of 15,988 boys and 2,066 girls and the 5,933 pupils of the 52 Girls' Schools consisted of 5,774 girls and 59 boys.

IV. Finance.

10. The opening balance of the "School Fund" was Rs. 36,295. The total receipts amounted to Rs. 5,51,430 as against Rs. 5,01,082 for the previous year. The contribution from the General Municipal Fund for the year was Rs. 5,10,000 as against Rs. 4,62,000 in the previous year. The income from fees rose from Rs. 37,681 in 1915-16 to Rs. 40,516 in the year under review. The Trust Funds and other sources yielded about Rs. 913.

11. The total expenditure for the year was Rs. 5,68,398, being Rs. 66,225 in excess over that for the year 1915-16. The increase was chiefly due to (1) the employment of over a hundred additional teachers; (2) the securing of improved accommodation for the schools; (3) the opening of 12 new schools; (4) the payment of enhanced Grants-in-Aid to some schools and fresh grants to others; (5) improved equipment of the schools. The year closed with a balance of Rs. 19,327.

12. The average cost per pupil (including the cost of the supervising establishment) was Rs. 20·9 as against Rs. 20·5 last year. The cost was distributed as under:—

Teaching	Rs. 12·7
House rent	„ 5·5
Miscellaneous	„ 2·7
Total	Rs. 20·9

13. Appendix "A" gives the details of the actual income and expenditure under the various heads, and Appendix "B" the Balance Sheet.

V Teachers and Training Classes.

14. The following table shows the total number of ordinary teachers in the Municipal schools for the year under review and the previous year. The trained and untrained teachers are shown separately.

Figures for 1916-17..

Classes of Teachers.	NUMBER OF TEACHERS.								
	Trained.			Untrained.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Marathi	195	74	269	164	42	206	359	116	475
Gujerati	72	37	109	77	60	137	149	97	246
Urdu	30	1	31	132	40	172	162	41	203
Total	297	112	409	373	142	515	670	254	924

Figures for 1915-16.

Marathi	172	63	235	135	32	167	307	95	402
Gujerati	55	29	84	81	48	129	136	77	213
Urdu	21	...	21	145	22	167	166	22	188
Total	248	92	340	361	102	463	609	194	803

15. The increase in the number of teachers during the year was 121. It was due to the opening of new schools, the growth of the pupils attending old schools and the demands of efficiency elsewhere. The policy initiated since the year 1915-16 of giving preference to

trained teachers even for provisional or acting appointments continues and appreciable number of trained teachers was thus secured. Thirteen full time teachers were added during the year to the special teachers, whose total at the end of the year, stood as under :—

Drawing Masters	...	...	...	...	...	...	8
Drill Masters ..	...	...	...	...	...	...	6
Music Masters	...	...	...	...	...	...	6
Sewing Mistresses	...	...	...	...	...	...	10
Knitting Masters	...	...	...	...	...	...	2
English Lady Teachers	...	...	...	...	...	...	5
Total							37

16. To the above number have to be added 6 teachers of the three Teachers' Training Classes maintained by the Committee. The number of peons and hamals was 79. Thus the total staff consisted of 1,046 persons.

VI. Inspection and Supervision.

17. The new arrangements made last year, placing the three sets of Municipal Schools in Bombay in charge of the three Superintendents separately, worked very well. Messrs. A. R. Bhaiji, B.A., H. G. Anjaria, M.A., LL.B., and K. B. Padgaokar, B.A., continued to hold the offices of the Superintendents of the Urdu, the Gujarathi and the Marathi Schools, respectively, and Mr. B. R. Manerikar, B.A., that of the Assistant Superintendent, Marathi Schools. Mr. Anjaria was on leave for one month and 16 days and Mr. T. M. Trivedi, the Head-master of the Bhuleshwar Gujarathi School acted for him. All the Superintendents showed commendable zeal and activity in the discharge of their duties. Messrs. Padgaokar and Manerikar paid 334 and 378 visits respectively to the schools in their charge and report improved teaching, as the result of their efforts. They drew up new curricula for Music and Drawing both of which have become equally popular in the Girls' Schools. Messrs. Anjaria and Trivedi paid 328 and 47 visits and the former put forth special efforts to give instruction to the lady teachers. These gentlemen conducted the annual examinations of all the schools personally. Mr. Bhaiji paid 220 visits and examined all the Urdu Schools in his charge twice. As an index of the improved teaching in the Urdu Department, it may be mentioned that three of the schools passed cent. per cent. boys at the Fourth Standard Examination and a pupil of the Imamwada Urdu School secured a Government Middle School Scholarship. Mr. Bhaiji considers that the indigenous Koran Schools interfere considerably with the further growth of Municipal Urdu Schools. These indigenous schools, of which there is a large number in the City, though inefficient, are entirely free in accordance with the traditions of Islam and attract a large number of pupils. The Superintendents actively helped, as usual, the Government Deputy Educational Inspector, Bombay, in holding the Bombay Vernacular Fourth Standard Examination and were this year associated even in preparing the final results. All this together with the Expansion of the schools meant increased work in the offices of the Superintendents. An additional clerk and a peon were added to the staff as a relief.

VII. Results of Examinations, etc.

18. The following table shows the results of the important examinations at which pupils from the Municipal Schools appeared during the year :—

	No. of candidates (appearing).	No. of candidates (successful).
Vernacular Final Examination ...	51	26
Four Standard Vernacular Examination...	1,813	1,391
Middle School Scholarship Examination	3	2
Mary Carpenter Scholarship Examination.	25	2

VIII. Medical Inspection.

19. The results of the experimental medical examination of Municipal school children conducted in 1914-15, having been regarded as encouraging, the Schools Committee drew up the following scheme for a further experiment on a more extended scale, which was eventually approved of by the Corporation :—

- (1) That the most advisable course would be to carry on as an experiment for 3 years a medical inspection of the Municipal school children.

- (2) That the operations should be confined to one initial examination of all the school children, the re-examination of such of them as are specially noted for such re-examination and fresh examination of all new comers.
- (3) That intimations of the ailments discovered should be sent to the parents and the guardians, with the suggestion that they may avail themselves of free treatment at the existing Municipal Dispensaries. AND
- (4) That the following staff be employed for the purposes of the said inspection for the said period of 3 years :—
 - (a) One male qualified Medical Inspector, pay Rs. 150 per month, including carriage allowance.
 - (b) One male Assistant of the Sub-Assistant Surgeon Class, pay Rs. 75 per month, including carriage allowance.
 - (c) One lady qualified Medical Inspectress, pay Rs. 150 per month including carriage allowance.
 - (d) One nurse as Assistant to (c), pay Rs. 75 per month, including carriage allowance.

To this have to be added two peons, each on Rs. 12-13, and an expenditure of about Rs. 25 per mensem for contingencies.

20. In pursuance of the above scheme, the Schools Committee appointed Dr. G. V. Kher, L. M. & S., Medical Inspector and Dr. (Miss) Gulbai M. Doctor, L. M. & S., Medical Inspectress, and Dr. V. D. Afinwala, L. M. & S., as Assistant Medical Inspector and Miss Tarabai Rajpurkar as Assistant Inspectress. They commenced their work from March 1917.

IX. Miscellaneous.

21. Seven of the trained teachers retired during the year. They were: (1) Abdul Rehman Abdul Rajak, (2) P. G. Guhagarkar, (3) K. M. Kulkarni, (4) V. B. Kamat, (5) L. C. Pendse, (6) M. R. Usapkar, and (7) G. C. Purohit; of these the first three were Headmasters of long and creditable service. The other four teachers were senior assistants. There were 3 deaths amongst the teachers.

D. G. PADHYE,
Secretary, Schools Committee.

Appendix A.*Statement of Actual Income and Expenditure of the "School Fund" for the year 1916-1917.*

Receipts.	Amount.	Expenditure.	Amount.
	Rs. a. p.		Rs. a. p.
1. Balance on the 1st of April 1916	36,295 8 4	A.—SCHOOLS.	
2. Fees from Municipal Schools	40,516 15 0	1. Head Masters and Teachers	2,94,231 5 8
3. Contribution from the General Municipal Fund..	5,10,000 0 0	2. Servants	10,924 5 8
4. Government Grants-in-Aid towards Buildings ...	.....	3. Rent	1,82,912 11 6
5. Interest on Endowments or Investments ...	764 9 0	4. Cost of Class Books	1,825 15 5
6. Miscellaneous	149 0 0	5. School Furniture	15,179 8 11
		6. Prizes	4,192 9 7
		7. Contingencies and Miscellaneous	19,920 0 7
		8. Scholarships in Schools	432 0 0
		9. Stipends of Students under training as Vernacular Teachers	5,568 12 3
		10. Superintendent's Establishment	18,477 6 2
		11. Grants-in-Aid to Primary Schools	65,208 3 0
		12. Library and Museum	1,410 13 3
		13. Medical Inspection	288 13 0
		14. * Interest on Endowments or Investments ...	1,636 10 0
		B.—BUILDINGS.	
		1. Municipal Original Works ... ..	.....
		2. Repairs to Municipal School Houses	1,289 3 8
		Balance on 31st March 1917	19,827 9 8
Total Rs. ...	5,87,726 0 4	Total Rs. ...	5,87,726 0 4

* Loss incurred by the sale of Government Paper purchased from the Surplus Cash Balance.

THE SCHOOLS COMMITTEE'S OFFICE,

BOMBAY, 11th June 1917.

D. G. PADHYE,

Secretary, Schools Committee.

Appendix B.*Balance Sheet of the "School Fund" for the year 1916-1917.*

LIABILITIES.	Rs. a. p.	ASSETS.	Rs. a. p.
To Deposit Account	1,515 15 2	By Bank of Bombay, Government, &c., Paper Deposit Account	18,900 0 0
" Hurkisondas Brijlal Prize Fund—		" Bank of Bombay, Surplus Cash, Government, &c., Paper Deposit Account	10,801 0 0
Principal Rs. 500 0 0		" Bank of Bombay on account of Securities from Contractors	2,300 0 0
Interest " 9 12 5	509 12 5	" Advance Account—	
" Dr. Blaney Prize Fund—		To the Secretary Rs. 130 0 0	
Principal Rs. 1,000 0 0		" Superintendent—	
Interest " 26 11 11	1,026 11 11	Marathi Schools ... Rs. 30 0 0	
" Madhavdas Rughnathdas Prize Fund—		Gujerati " " 20 0 0	
Principal Rs. 500 0 0		Urdu " " 20 0 0	
Interest " 22 4 0	522 4 0		200 0 0
" Jivcore Lallubhai Scholarship, &c., Fund—		" Advance, Miscellaneous	30 0 0
Principal Rs. 1,000 0 0		" Actual Cash Balance—	
Interest " 34 6 0	1,084 6 0	In Bank of Bombay ... Rs. 35,327 12 6	
" Bachooabai S. Bengalee Prize Fund—		Office Treasury .. " 770 6 2	
Principal Rs. 1,000 0 0			36,098 2 8
Interest " 47 0 2	1,047 0 2		
" R. S. Taki Scholarship and Prize Fund—			
Principal Rs. 1,100 0 0			
Interest " 34 13 4	1,134 13 4		
" Parmanand Raja Endowment Fund—			
Principal Rs. 13,800 0 0			
Interest " 820 0 0	14,620 0 0		
" Bai Valibai Vallabhdas Vishram Mowji Endowment Fund—			
Principal Rs. 25,000 0 0	25,000 0 0		
" Paper Deposits from Contractors	2,547 10 0		
" Donations for Training Urdu Teachers	2 0 0		
" N. S. Bengalee Donation	4 0 0		
" Cutchi Memon Scholarship	28 0 0		
" "S. M. Edwardes" Scholarships	9 0 0		
" Income and Expenditure Account—			
Balance on 31st March 1917	19,327 9 8		
Total Rs. ...	68,329 2 8	Total Rs. ...	68,329 2 8

THE SCHOOLS COMMITTEE'S OFFICE,

BOMBAY, 11th June 1917.

D. G. PADHYE,

Secretary, Schools Committee.

Appendix C.

Reports made by the Schools Committee.

1. (Per Resolution No. 38 of 12th April 1916): Report sent to the Corporation, stating the Schools Committee's views regarding proposed amendment of the Municipal Act empowering the Municipal Commissioner to be present at the Schools Committee's meetings, etc.
2. (Per Resolution No. 89 of 28th June 1916): Report sent to the Corporation describing the measures taken to secure better premises for Municipal Schools.
3. (Per Resolution No. 116 of 19th July 1916): Report sent to Government through the Municipal Commissioner, stating the Schools Committee's views on certain proposals for the Improvement and Extension of Female Education in India.
4. (Per Resolution No. 167 of 23rd August 1916): Report sent to the Municipal Commissioner as to the advisability of buying the S. P. C. Mission Church in Kamathipura as a site and building for a Municipal School.
5. (Per Resolution No. 168 of 23rd August 1916): Report sent to the Corporation, stating the Schools Committee's views on a letter from Government in regard to the subject matter of the Bye-laws of the Schools Committee and the proper procedure for sanctioning them.
6. (Per Resolution No. 223 of 4th October 1916): Report sent to a Corporation Committee detailing the measures taken by the Schools Committee for the education of the Depressed Classes.
7. (Per Resolution No. 227 of 11th October 1916): Report sent to the Corporation on the subject of the Medical Inspection of Municipal Schools children.
8. (Per Resolution No. 251 of 1st November 1916): Report sent to Government, stating the Schools Committee's views in regard to a proposal to substitute "Continuation Classes" in all the Districts for the First Year Classes at the Poona and the Ahmedabad Training Colleges.
9. (Per Resolution No. 370 of 28th February 1917): Report sent to a Corporation Committee, giving certain information as to the working of the Free studentships allowed in Municipal Schools.
10. (Per Resolution No. 399 of 7th March 1917). Report sent to the Corporation *re*: Training of Urdu School teachers and the status of teachers with U. P. Training Certificates.
11. (Per Resolution No. 400 of 7th March 1917): Report sent to the Corporation, detailing the programme adopted by the Schools Committee for opening new schools in the year.

THE SCHOOLS COMMITTEE'S OFFICE,

BOMBAY, 11th June 1917.

}

D. G. PADHYE,

Secretary, Schools Committee.

Appendix D.*The Aided Schools.*

The following table shows the number of Aided Schools with the attendance thereat. The amount of Grant paid to them from the "School Fund" during 1916-17 was Rs. 65,208, as against Rs. 58,780 for the previous year :—

CLASS OF SCHOOLS.	AIDED.			
	1916-1917.		1915-1916.	
	Schools.	Pupils.	Schools.	Pupils.
MARATHI.				
<i>Day Schools—</i>				
Primary for boys	46	4,900	45	4,909
Do. for girls	16	1,653	15	1,605
Total	62	6,553	60	6,514
<i>Night Schools</i>	13	260	11	202
Total of Marathi Schools ...	75	6,813	71	6,716
GUJERATI.				
<i>Day Schools—</i>				
Primary for boys	32	4,149	32	4,297
Do. for girls	22	3,099	19	3,004
Total	54	7,248	51	7,301
<i>Night Schools</i>	2	99	2	133
Total of Gujerati Schools ...	56	7,347	53	7,434
URDU.				
<i>Day Schools—</i>				
Primary for boys	6	953	6	1,135
Do. for girls	2	466	1	215
Total of Urdu Schools ...	8	1,419	7	1,350
<i>Tamil Day School</i>	1	44	1	36
Grand Total of Marathi, Gujerati, Urdu and Tamil Schools ...	140	15,623	132	15,536

THE SCHOOLS COMMITTEE'S OFFICE,

BOMBAY, 11th June 1917.

D. G. PADHYE,

Secretary, Schools Committee.

Appendix E.*Race of Pupils.*

The number of pupils in the Municipal and Aided Schools according to their race was as under:—

Race.	1916-1917.			1915-1916.		
	Municipal.	Aided.	Total.	Municipal.	Aided.	Total.
Europeans and Eurasians	...	...	...	...	2	2
Portuguese and Native Christians	104	411	515	104	381	485
Hindus	17,789	7,934	25,723	16,664	8,179	24,843
Mahomedans	5,753	2,904	8,657	4,571	2,799	7,370
Buddhists	...	...	...	...	...	...
Parsis	240	3,671	3,911	223	3,659	3,882
Others	101	703	804	107	516	623
Total ...	23,987	15,623	39,610	21,669	15,536	37,205

THE SCHOOLS COMMITTEE'S OFFICE, }

BOMBAY, 11th June 1917.

D. G. PADHYE,

Secretary, Schools Committee.

Appendix F.

The following is a rough estimate of the number and attendance in unrecognized and unaided Primary Schools in Bombay:—

Classes of Schools.							Schools.	Pupils.
MARATHI.								
Primary for boys	...	...	...	...	...	...	27	929
Do. for girls	...	...	...	...	...	...	1	31
Total ...						...	28	960
GUJERATI.								
Primary for boys	...	...	...	...	...	...	27	1,609
Do. for girls	...	...	...	...	...	...	5	951
Total ...						...	32	2,560
URDU.								
Primary for boys	...	...	...	...	...	...	19	1,108
Do. for girls	...	...	...	...	...	...	1	20
Total ...						...	20	1,128
Grand Total ...						...	80	4,648

THE SCHOOLS COMMITTEE'S OFFICE, }

BOMBAY, 11th June 1917.

D. G. PADHYE,

Secretary, Schools Committee.

Appendix G.

THE PROGRESS OF PRIMARY EDUCATION IN BOMBAY.

A. Under the Joint Schools Committee.

Year.	No. of Schools.	Increase or Decrease.	No. of pupils.	Increase or Decrease.	Total expenditure.	Increase or Decrease.
1890-91 being the first year of the Joint Schools Committee ...	62	...	6,134	...	Rs. 81,861	Rs. ...
1908-09 being the last year ...	102	+ 40	10,314	+ 4,180	2,54,888	+ 1,73,027

B. Under the (Municipal) Schools Committee from year to year.

1909-10	114	+ 12	11,559	+ 1,245	2,88,202	+ 33,314
1910-11	127	+ 13	13,255	+ 1,696	3,30,890	+ 42,688
1911-12	142	+ 15	15,861	+ 2,606	3,38,263	+ 7,373
1912-13	160	+ 18	16,746	+ 885	3,78,088	+ 39,825
1913-14	174	+ 14	18,846	+ 2,100	4,37,815	+ 59,727
1914-15	179	+ 5	18,046	— 800	4,77,963	+ 40,148
1915-16	183	+ 4	21,669	+ 3,623	5,02,173	+ 24,210
1916-17	195	+ 12	23,987	+ 2,318	5,68,398	+ 66,225

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 11th June 1917.

D. G. PADHYE,
Secretary, Schools Committee.

MUNICIPAL OFFICES,
BOMBAY, 31st May 1917.

From

THE MUNICIPAL AUDITORS,
BOMBAY.

To

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

In accordance with Section 137 of the Bombay Municipal Act of 1888, we have the honour to forward herewith three Appendices, marked A, B and C, containing the result of the scrutiny of the outstanding Bills of Rates and Taxes which were in the hands of the Ward Clerks and in the Office of the Assessor and Collector on the 31st March 1917.

2. These Appendices form part of the Annual Report on the Municipal Accounts for the year 1916-17, now under preparation.

We have the honour to be,

Sir,

Your most obedient servants,

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,

Municipal Auditors.

Appendix A.

STATEMENT of Outstanding Bills of Rates and Taxes in the hands of the Ward Clerks and in the office of the Assessor and Collector on the 31st March 1917.

Wards.	No. of Bills.	Amount.											REMARKS.
		On value.				Compounded or special.				Tax on Vehicles and Animals.	Meter Hire.	Grand Total.	
		General Tax.	Water Tax.	Halalkhore Tax.	Total.	Compound- ed Water Service.	Special Halalkhore Service.	Water charged by Meter.					
									Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A	140	5,304 15 8	1,297 8 1	1,557 9 11	8,160 1 8	0 8 0	.....	656 0 6	888 0 8	.....	9,704 10 10		
A—Government, Port Trust and Railways.	35	664 3 7	64 12 10	3 0 0	732 0 5	.....	5,503 12 9	1,028 1 3	177 0 0	.....	7,435 14 5		
A—City Improvement Trust....	31	2,135 0 2	617 12 9	614 9 8	3,367 6 7	1 0 0	.....	260 0 0	.....	.....	3,628 6 7		
B	29	2,145 0 8	606 12 0	557 8 6	3,309 5 2	.....	.....	.....	50 0 0	16 0 0	3,375 5 2		
C	26	1,252 11 11	444 3 8	392 5 9	2,089 5 4	.....	.....	.....	37 0 0	.....	2,126 5 4		
D	125	16,895 7 6	430 14 6	885 9 0	18,211 15 0	16 8 0	9 14 9	1,076 3 10	887 5 4	114 0 0	20,315 14 11		
E	82	3,003 0 7	581 13 7	949 7 1	4,534 5 3	4 5 4	.....	54 15 0	492 10 8	27 0 0	5,113 4 3	* Two bills aggregating Rs. 10-1-2 are reported to have been retained by the Court of Small Causes, Bombay, and therefore not produced for inspection.	
F—North	5	121 12 2	36 15 11	35 4 9	194 0 10	.....	.....	.....	5 0 0	10 0 0	209 0 10		
F—South	4	423 15 5	43 0 7	126 12 10	593 12 10	.....	.....	.....	.....	.....	593 12 10		
G—North	5	72 12 2	22 1 8	21 7 7	116 5 5	.....	.....	41 0 0	26 0 0	.....	183 5 5		
G—South	20	873 0 4	111 15 11	262 0 1	1,247 0 4	.....	.....	.....	40 0 0	15 0 0	1,302 0 4		
Total ...	502	32,892 0 2	4,237 15 6	5,405 11 2	42,555 10 10	22 5 4	5,513 11 6	3,111 4 7	2,603 0 8	182 0 0	53,988 0 11		

MUNICIPAL OFFICES,
BOMBAY, 31st May 1917.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

STATEMENT of Outstanding Bills of Rates and Taxes in arrear for the year 1915-16 and previous years in the hands of the Ward Clerks and in the Office of the Assessor and Collector on the 31st March 1917.

Wards.	No. of Bills.	Amount.					REMARKS.				
		On value.		Compounded or Special.							
		General Tax.	Water Tax.	Halalkhore Tax.	Total.	Compounded or Special.					
						Compounded Water Service.		Special Halalkhore Service.	Water charged by Meter.	Tax on Vehicles and Animals.	Grand Total.
A ..	18	Rs. a. p. 2,945 1 6	Rs. a. p. 640 12 11	Rs. a. p. 623 8 5	FOR THE YEAR 1915-16. Rs. a. p. 4,209 6 10	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p. 44 5 4	Rs. a. p. 4,253 12 2	* Two bills aggregating Rs. 10-1-2 are reported to have been retained by the Court of Small Causes, Bombay, and therefore not produced for inspection.
B ..	1	1,098 7 7	.....	384 0 10	1,432 8 5	12 0 0	.....	72 0 4	11 0 0	1,516 8 9	
D ..	9	157 8 2	5 7 2	45 9 8	212 9 0	.....	.....	42 8 2	24 0 0	279 1 2	
E ..	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	
North G ..	2	12 13 4	3 14 4	3 14 4	30 10 0	.....	.....	.....	.....	20 10 0	
South G ..	2	87 8 4	31 0 10	31 0 10	149 5 0	.....	.....	.....	.....	149 5 0	
Total ..	42	4,301 1 11	685 3 3	1,038 2 1	6,024 7 3	12 0 0	.....	114 8 6	79 5 4	6,230 5 1	
A ..	2	399 15 0		121 8 0	FOR THE YEAR 1914-15. 521 7 0					521 7 0	Two bills aggregating Rs. 21-8-11 are reported to have been retained by the Court of Small Causes, Bombay, and therefore not produced for inspection.
B ..	3	.....	.....	.....	.....	.....	.....	.....	27 0 0	27 0 0	
D ..	6	1,097 1 10	.....	383 4 10	1,430 6 8	5 0 0	.....	.....	.....	1,435 6 8	
E ..	12	1,239 11 3	11 10 10	374 0 10	1,625 6 11	.....	.....	.....	69 0 0	1,694 6 11	
North G ..	1	6 6 8	1 15 2	1 15 2	10 5 0	.....	.....	.....	.....	10 5 0	
Total ..	24	2,743 2 9	13 10 0	880 12 10	3,587 9 7	5 0 0	.....	.....	96 0 0	3,688 9 7	
D ..	9	890 12 0	223 0 0	267 3 7	FOR THE YEAR 1913-14. 1,380 15 7				25 0 0	1,405 15 7	Two bills aggregating Rs. 51-9-4 are reported to have been retained by the Court of Small Causes, Bombay, and therefore not produced for inspection.
E ..	8	67 1 6	23 14 4	21 3 11	112 3 9	.....	.....	.....	30 10 5	142 14 2	
Total ..	17	957 13 6	246 14 4	388 7 6	1,493 3 4	.....	.....	.....	55 10 5	1,548 13 9	
E ..	2	27 10 0	8 12 4	7 12 10	FOR THE YEAR 1912-13. 44 3 2	.....	.....	.....	.....	\$44 3 2	
B ..	4	.....	.....	.....	.....	.....	.....	.....	38 0 0	38 0 0	
E ..	1	6 11 3	4 6 2	3 14 5	8 15 10					8 15 10	Reported to have been retained by the Court of Small Causes, Bombay, and therefore not produced for inspection.
Total ..	5	0 11 3	4 6 2	3 14 5	8 15 10	.....	.....	.....	33 0 0	41 15 10	
B ..	2	.....	.....	.....	FOR THE YEAR 1909-10. ....	.....	.....	.....	27 8 8	27 8 8	
Grand Total ..	92	8,030 7 5	958 14 1	2,169 1 8	11,168 7 2	17 0 0	.....	114 8 6	291 8 5	11,681 8 1	

MUNICIPAL OFFICES,
BOMBAY, 31st May 1917.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

Appendix C.

SUMMARY OF APPENDICES A AND B.

YEAR.	APPENDIX A.		APPENDIX B.		GRAND TOTAL.	
	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.
		Rs. a. p.		Rs. a. p.		Rs. a. p.
1916-17	502	53,988 0 11	...	.....	502	53,988 0 11
1915-16 ... ..	...	.....	42	6,230 5 1	42	6,230 5 1
1914-15 ... ..	...	.....	24	3,688 9 7	24	3,688 9 7
1913-14 ... ..	...	.....	17	1,548 13 9	17	1,548 13 9
1912-13 ... ..	...	.....	2	44 3 2	2	44 3 2
1911-12 ... ..	...	.....	5	41 15 10	5	41 15 10
1909-10 ... ..	...	.....	2	27 8 8	2	27 8 8
Total	502	53,988 0 11	92	11,581 8 1	594	65,569 9 0

The Outstanding amount on the same date last year was Rs. 42,454-0-7.

MUNICIPAL OFFICES,
BOMBAY, 31st May 1917.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 1st August 1917

From

THE MUNICIPAL AUDITORS,

BOMBAY.

To

THE MUNICIPAL SECRETARY,

BOMBAY.

SIR,

We have the honour to forward herewith our Report on the accounts of the Schools Committee for the year 1916-17.

We have the honour to be,

Sir,

Your most obedient servants,

BHUKHANDAS B. DESAI,

SHIWARAM TRIMBAK THAKUR,

Municipal Auditors.

REPORT ON THE ACCOUNTS OF THE "SCHOOL FUND" FOR THE YEAR 1916-17.

In accordance with Bye-law No. 15 of the Schools Committee, we beg to report that we have audited the accounts, examined all vouchers, relating to Receipts and Disbursements of the "School Fund" in charge of the Schools Committee, from the 1st April 1916 to the 31st March 1917 and found them in order. Some irregularities found in the course of audit will be reported to the Secretary of the Schools Committee for necessary action.

2. The total receipts of the "School Fund" during the year 1916-17 amounted to Rs. 5,51,430-8-0 against Rs. 5,01,082-9-0 during the year 1915-16. The excess of Rs. 50,347-15-0 in receipts over the preceding year is mainly due to increase in the amount of contribution paid to the Schools Committee from the Municipal General Fund and in the amount of fees collected from the schools.

3. The total expenditure during the year 1916-17 amounted to Rs. 5,68,398-6-8 against Rs. 5,02,173-11-9 during the year 1915-16. Thus there has been an increase of Rs. 66,224-10-11. The causes for the increase have been explained by the Secretary in his Annual Administration Report of the Schools Committee.

4. It will be seen from the foregoing paras. 2 and 3 that the total outgoings were greater than the total receipts by (Rs. 5,68,398-6-8 minus Rs. 5,51,430-8-0) Rs. 16,967-14-8. The difference was met from the sale proceeds of Government Paper forming part of the Surplus balance belonging to the School Fund carried forward from the previous year.

5. The expenditure under certain heads exceeded the Budget grants sanctioned for them. The total excess amounted to Rs. 15,562-8-7, of which Rs. 12,369-1-11 were met by re-appropriation from the grants for other heads, under which there were savings and the rest Rs. 3,193-6-8 from the Surplus balance, *vide* Schools Committee's Resolution No. 36, dated the 20th June 1917.

6. The total assets and workable balance of the "School Fund" on the 31st March 1917, amounted to Rs. 68,329-2-8 and Rs. 19,327-9-8, respectively, as per details given below :—

	Rs.	a.	p.
Advances recoverable	230	0	0
Government Promissory Notes being Security Deposit of Contractors kept for safe custody in the Bank of Bombay (nominal value)	2,300	0	0
Government Promissory Notes and other Securities belonging to Prize Funds, deposited for safe custody with the Bank of Bombay	18,900	0	0
Government Promissory Notes of the nominal value of Rs. 11,200, on account of Investment of Surplus Cash Balance, belonging to the School Fund, deposited for safe custody with the Bank of Bombay (actual value) ...	10,801	0	0
<i>Cash Balance—</i>			
In the Bank of Bombay	Rs. 35,327	12	6
In the Office Treasury	770	6	2
	36,098	2	8
Total amount of Assets ...	68,329	2	8
<i>Deduct—</i>			
Total Liabilities on account of Prize Funds, &c.	Rs. 44,937	15	10
Total Liabilities on account of Deposit Accounts	4,063	9	2
	49,001	9	0
Total amount of workable balance of the School Fund on 31st March 1917	19,327	9	8

7. The balance in the Pass Book of the Bank of Bombay was verified by us and found correct; and the safety receipts for the Government paper, &c., lodged with the Bank of Bombay, were examined by us and found to be in order.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 1st August 1917.

BOMBAY, 16th August 1917.

From

THE MUNICIPAL AUDITORS,
BOMBAY.

To

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

We have the honour to forward herewith our report on the Municipal Accounts for the year 1916-17, with a view to the same being printed and submitted to the Corporation as usual.

• We have the honour to be,

Sir,

Your most obedient servants,

BHUKHANDAS B. DESAI,

SHIWARAM TRIMBAK THAKUR,

Municipal Auditors.

REPORT OF THE AUDITORS OF MUNICIPAL ACCOUNTS FOR THE YEAR 1916-17.

For the audit of the accounts under review, Messrs. B. B. Desai and S. T. Thakur were appointed to be Auditors as per Corporation Resolution No. 7884, dated the 9th March 1916.

2. As usual, all vouchers and papers, relating to both Receipts and Disbursements for the year 1916-17 have been examined with the Day-Books and the Subsidiary Ledgers, or classified Abstracts of Receipts and Charges: the postings in the General Ledger have also been checked with the entries in the Day-Books, and those in the Journal with the Subsidiary and General Ledgers.

3. The weekly statements of Receipts and Charges of the Municipal Fund were examined as they were prepared, prior to their publication in the *Bombay Government Gazette*.

4. The number of vouchers, relating to the accounts of the year under review compares with those of the previous year, as follows:—

	1915-16.	1916-17.
Receipt vouchers	40,906	42,080
Disbursement vouchers	90,183	91,786
	<u>1,31,089</u>	<u>1,33,816</u>
	+ 2,727	

There is on the whole an increase of 2,727 in the number of vouchers in the year under report.

5. The result of the year compared with the Budget, and the Revised, and the Actuals of the previous year has been summarized below:—

	1916-17.			
	1915-16.			
	Actuals.	Budget.	Revised.	Accounts.
	Rs.	Rs.	Rs.	Rs.
Revenue and Receipts	1,38,31,070	1,31,75,000	1,38,04,000	1,40,48,739
Expenditure	1,28,03,870	1,38,29,228	1,43,93,000	1,42,14,292
Surplus	10,27,200	.....	.....	.....
Deficit ... ..	.....	6,54,228	5,89,000	1,65,553

6. The total Receipts during the year under review were more than those of the previous year by Rs. 2,17,669. The actuals of Receipts were better than the Budget and the Revised by Rs. 8,73,739 and Rs. 2,44,739 respectively.

7. The total expenditure from the Municipal Fund during the year under report amounted to Rs. 1,42,14,292 against Rs. 1,28,03,870 in the previous year, resulting in an increase of Rs. 14,10,422. The Actuals are more than the Budget by Rs. 3,85,064 and less than the Revised by Rs. 1,78,708.

8. The Budget estimated for a deficit of Rs. 6,54,228 which was reduced to Rs. 5,89,000 in the Revised and was further reduced to Rs. 1,65,553 in the actuals. It may be noted that the result of the year 1915-16 showed a surplus of Rs. 10,27,200 against a deficit of Rs. 1,65,553 in the year under report.

9. The opening cash balance on the 1st April 1916 was Rs. 3,25,997-15-11. This, together with the total Receipts of the year (inclusive of Debt, Deposits, Advances, &c.), amounted to Rs. 6,54,34,315-0-2. The gross payments during the year amounted to Rs. 6,50,75,578-8-8, thus leaving a balance of Rs. 3,58,736-7-11 on the 31st March 1917.

10. The surplus funds investments on the 31st March 1917 amounted to Rs. 48,24,774-14-10, as per following details against Rs. 62,75,616-10-0 on the same date last year:—

	Rs.	a.	p.
In Government, &c., Paper with the Bank of Bombay (face value Rs. 20,97,500)	20,96,306	14	0
In <i>Current Account</i> with the following Banks:—			
Bank of Bombay	100	0	0
Hongkong & Shanghai Banking Corporation	410	0	0
Comptoir National D'Escompte de Paris	312	1	6
Chartered Bank of India, Australia & China	672	11	2
National Bank of India, Limited	144	12	0
Yokohama Specie Bank, Limited	350	14	6
Mercantile Bank of India, Limited	344	2	0
Bank of India, Limited	1,60,464	9	5
Eastern Bank, Limited	1,15,668	14	3
Total	2,78,468	0	10
In <i>Fixed Deposits</i> with the following Banks:—			
Chartered Bank of India, Australia & China	4,00,000	0	0
Yokohama Specie Bank, Limited	2,00,000	0	0
Hongkong & Shanghai Banking Corporation	2,00,000	0	0
Mercantile Bank of India, Limited	2,00,000	0	0
Comptoir National D'Escompte de Paris	4,00,000	0	0
Bank of India, Limited	3,50,000	0	0
Eastern Bank, Limited	3,00,000	0	0
National Bank of India, Limited	2,00,000	0	0
Total	24,50,000	0	0
Grand Total	48,24,774	14	10

11. The invested balances of the several Loan Funds on the 31st March 1917 amounted to Rs. 22,03,469-10-7 as per following details against Rs. 34,94,228-15-1 on the same date last year:—

	Rs.	a.	p.
In Government, &c., Paper with the Bank of Bombay (face value Rs. ) ... ..	.....		
In <i>Current Account</i> with the following Banks:—			
Hongkong & Shanghai Banking Corporation	29	13	0
Chartered Bank of India, Australia & China	58	5	10
Yokohama Specie Bank, Limited	17	0	10
Mercantile Bank of India, Limited	78	13	0
Bank of India, Limited	20,491	3	1
Eastern Bank, Limited	1,82,794	6	10
Total	2,03,469	10	7
In <i>Fixed Deposits</i> with the following Banks:—			
Bank of Bombay ... ..	.....		
Comptoir National D'Escompte de Paris	3,50,000	0	0
Yokohama Specie Bank, Limited	7,00,000	0	0
Eastern Bank, Limited	2,50,000	0	0
Bank of India, Limited	3,50,000	0	0
Mercantile Bank of India, Limited	3,50,000	0	0
Total	20,00,000	0	0
Grand Total	22,03,469	10	7

12. The above balances of current accounts in the several Banks have been compared with the Pass Books of the various Banks and found correct. The safety receipts for the Government, &c., Papers lodged with the Bank of Bombay, and the Fixed Deposit Receipts of the several Banks were examined and found to be in order.

13. The following is the list of charges, sanctioned during the year 1916-17 by the Municipal Commissioner and paid out of his Discretionary Contingent Grant :—

Serial No.	Sanctioning Authority.	Particulars.	Amount.
			Rs. a. p.
1	Standing Committee Resolution No. 2719 of 28th July 1916.	Payment of compensation to Mr. Nicolas Remedios for the loss, sustained by him owing to the removal of certain fruit trees, which formed part of right Nos. 7 & 8, Salsette Division, sold to him.	10 0 0
2	Standing Committee Resolution No. 2553 of 19th July 1916.	Writing off of the amount of Private Works Bill No. $\frac{146}{16}$ of Water Works Department.	6 14 1
3	Standing Committee Resolution No. 2552 of 19th July 1916. Commissioner's No. 17324 of 12th August 1916.	Payment of compensation to Mr. E. H. Woodford for the damage, sustained by him, owing to an accident to his motor car in consequence of the subsidence of a portion of the road at Lamington Road.	60 0 0
4	Commissioner's No. 15942 of 28th July 1916.	Payment to Messrs. Wright & Co. of their bill for the supply of medicines and medical comforts for "First Aid" boxes.	42 9 4
5	Commissioner's No. 15874 of 28th July 1916.	Payment to the Assistant Surgeon of the Kurla Dispensary on account of his fees for visiting Sakharam Dhondoo, a Municipal Lineman, living in a Municipal Chawl at Chamboor Village Road, who developed symptoms of Cholera.	4 0 0
6	Commissioner's No. 37741/42 of 21st February 1916.	Cost of the work of providing a platform in the iron cement godown at the B. B. Pipe Depot.	902 8 8
7	Commissioner's No. 12659 of 6th July 1916.	Establishment, &c. charges, for the maintenance of the Hanging Garden at Malabar Hill already laid out (October 1916).	191 15 6
8	Do. do.	Establishment, &c. charges, for the maintenance of the Hanging Garden at Malabar Hill already laid out (November 1916).	496 10 9
9	Do. do.	Establishment, &c. charges, for the maintenance of the Hanging Garden at Malabar Hill already laid out (December 1916).	498 0 6
10	Do. do.	Establishment, &c. charges, for the maintenance of the Hanging Garden at Malabar Hill already laid out (January 1917).	524 9 3
11	Do. do.	Establishment, &c. charges, for the maintenance of the Hanging Garden at Malabar Hill already laid out (February 1917).	426 4 10
12	Commissioner's No. 30484 of 16th December 1916.	Payment to spare Signalman, Niwarti Kooshaba of the Love Grove Outfall Works for the courage, displayed by him in rescuing a Muccadam and labourers from a gas poisoned sewer, during the accident on the Outfall Works.	85 0 0
13	Commissioner's No. 2700 of 2nd May 1916.	Work of oil painting the benches at Chowpati Bandstand.	62 6 3
14	Standing Committee Resolution No. 5306 of 29th November 1916.	Adjustment of charges, incurred by the Municipality for transferring the Water connection at Bhoiwada Lane with Parsee Bazar Street sanctioned to be written-off (P. W. W. Bill No. 597 and P. R. D. Bill No. $\frac{A 87}{15}$).	16 15 11
15	Standing Committee Resolution No. 5688 of 13th December 1916.	For repairing a portion of a Compound wall of certain premises at Portuguese Church Road, damaged by a Municipal Cesspool Cart of Health Department	9 11 1
16	Commissioner's No. 26401 of 30th October 1916.	Cost of fixing rubber tyred wheels to all-day motor waggon No. 90 for carrying meat for the Market Department	2,125 0 0
17	Commissioner's No. 12659 of 6th July 1916.	For supplying two flexible standpipes with couplings, nozzles, fans, keys, &c., to the Supervisor, Municipal Trees, Malabar Hill (Hanging Gardens) ...	120 14 3
18	Commissioner's No. 28499 of 21st November 1916.	Cost of a 16" table fan for the Commissioner's Office	80 0 0
Total Rs. ...			5,658 8 6

14. The amount, outstanding on the 31st March 1917 under "Advances—Personal Account of Municipal Officers" was Rs. 47,218-9-8 against Rs. 39,032-15-4 on the same date last year. The former sum includes Rs. 6,103 on account of permanent advances to Municipal Officers, and the remainder, *viz.*, Rs. 41,115-9-8 represents the sums debited to this head pending adjustment.

15. The amounts outstanding on the 31st March 1917 under the heads, noted below, compare as follows with those on the same date last year:—

			1915-16.			1916-17.		
			Rs.	a.	p.	Rs.	a.	p.
Departmental works	...	...	16,187	8	1	7,902	10	8
Private works	...	...	22,094	11	3	40,969	7	0
Workshop	...	...	47,559	10	7	32,252	15	4
Total Rs.	...	...	85,841	13	11	81,125	1	0

16. The amount, outstanding on the 31st March 1917 to the debit of "Personal Account of Municipal Contractors" for supplies and services rendered to them, and for recoveries due from defaulting contractors was Rs. 144-12-5 against Rs. 118-9-11 on the same date last year.

17. The amount, outstanding on the 31st March 1917 under "Miscellaneous Advances" aggregated Rs. 8,84,735-10-9 against Rs. 4,57,717-10-7 on the same date last year. The increase under this head has been explained in the report of the Chief Accountant.

18. The total expenditure on account of Plague, during the year under report, met out of the current revenue, amounted to Rs. 1,29,957 against Rs. 1,22,912 in the preceding year. The total expenditure on this account from the commencement of the Plague, that is from the year 1896-97 to the end of the year 1916-17 amounted to Rs. 82,27,397.

19. For the scrutiny of the outstanding bills of Rates and Taxes for the year 1916-17 and previous years, a reference is requested to the Appendices A, B, & C, attached to the Municipal Auditors' letter of the 31st May 1917. The number of outstanding bills of Rates and Taxes on the 31st March 1917 was 594 of the value of Rs. 65,569-9-0 against 557 of the value of Rs. 42,454-0-7 on the 31st March 1916.

20. In accordance with the instructions, contained in the Corporation Resolution No. 5294, dated 19th November 1888, all Sinking Fund investments during the year pertaining to the several loans, were examined and found to agree with the amounts provided in the Budget for the year 1916-17. The total accumulated balances on account of the several Sinking Funds on the 31st March 1917 amounted to Rs. 1,80,81,729-8-1 (Rs. 1,80,81,169-11-0 in securities of the nominal value of Rs. 1,77,09,100 and £ 25,000 = Rs. 3,75,000, as given below and Rs. 559-13-1 in cash):—

			Nominal Value of Paper.			Actual Cost of Paper.		
			Rs.	a.	p.	Rs.	a.	p.
5 per cent. Municipal Debentures	...	...	36,47,500	0	0	36,47,500	0	0
4 per cent. do. do.	...	...	71,47,000	0	0	71,46,816	6	9
4 per cent. Bombay Port Trust Bonds...	...	...	5,52,000	0	0	5,52,000	0	0
4 per cent. City Improvement Trust Bonds	...	...	34,75,000	0	0	34,75,051	11	3
4 per cent. City Improvement Trust Sterling Bonds	...	...	3,75,000	0	0	3,75,000	0	0
4 per cent. Government Conversion Loan	...	...	13,59,500	0	0	13,59,500	0	0
3½ per cent. Government Promissory Notes	...	...	15,28,100	0	0	15,25,301	9	0
Total Rs.	...	...	1,80,84,100	0	0	1,80,81,169	11	0

The safety receipts, granted by the Bank of Bombay for the above securities in its custody have been examined and found to be in order; and the cash balances in the Bank's Pass Books, of the above funds have also been verified and found correct.

21. The balances of the several Reserve Funds, viz., the "Municipal Fire and Accident Insurance," "Worn-out Water Mains Renewal," "Municipal Land and Buildings Fund" and the "Net Premia" Funds on the 31st March 1917 amounted to Rs. 13,20,173-10-0, (Rs. 13,09,492-3-0 in securities of the nominal value of Rs. 13,11,700 as given below, and Rs. 10,000 in fixed Deposit and Rs. 681-7-0 in cash):—

	Nominal Value.			Actual Cost.		
	Rs.	a.	p.	Rs.	a.	p.
Municipal Fire and Accident Insurance Fund..	2,24,500	0	0	2,24,243	2	0
Worn-out Water Mains Renewal Fund ...	5,95,500	0	0	5,94,668	7	0
Net Premia Fund	1,88,700	0	0	1,87,580	10	0
Municipal Land and Buildings Fund ...	3,03,000	0	0	3,03,000	0	0
Total Rs. ...	13,11,700	0	0	13,09,492	3	0

The Bank's safety receipts for the above securities, the Pass Books for the Cash Balances and the Fixed Deposit Receipt have been examined and found to be in order.

22. The safety receipts for securities in Government, &c., Papers, aggregating Rs. 3,30,100, received from the Municipal employes and contractors and belonging to the several Memorial funds, and lodged with the Bank of Bombay, have been examined and found to be in order.

23. The securities other than Government, &c., Papers, furnished by the Municipal employes, and on the record of the Chief Accountant's Office, have also been examined with the registers maintained in his office, and found to be in order.

24. The balance of stock in hand on the 31st March 1917 as per books of the Chief Accountant, compared with that of the preceding year, was as follows:—

Department.	1915-16.			1916-17.		
	Rs.	a.	p.	Rs.	a.	p.
Executive Engineer's Department	597	12	9	610	8	0
<i>General Stores Department.</i>						
General Stores	2,54,806	1	11	4,39,210	1	3
Surplus and Obsolete Stores	4,581	7	8	3,182	8	0
Line Suspense Account	90,613	6	2	89,175	1	0
Total Rs. ...	3,50,000	15	9	5,31,567	10	3
Stores (Sales)	29,668	2	8	25,566	3	5
Water Works Imprest	3,572	9	0	3,088	13	3
Stock Adjustment Account	—2,011	4	1	—1,239	14	1
Total Rs. ...	31,224	7	7	27,415	2	7
Grand Total Rs. ...	3,81,823	4	1	5,59,593	4	10

25. In accordance with the instructions contained in para. XXIX of the Stores and Stores Audit Manual, a balance sheet of the General Stores Department has been prepared in the form prescribed in Appendix O of the Manual, giving two sets of figures, one from the Books of the Chief Accountant and the other from the Balance Sheet of the Storekeeper. The difference in the balance on the 31st March 1917 between the two sets of figures has been explained by a footnote in the statement hereto annexed.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 16th August 1917.

Statement of Stores Transactions for the year ending 31st March 1917
(Appendix O of the Stores and Stores Audit Manual.)

General Stores Department.	Figures as per books of the Chief Accountant.					Figures as per Balance Sheet of the Storekeeper.				
	Balance on 31st March 1916.	Receipts during 1916-17.	Total.	Issues during 1916-17.	Balance on 31st March 1917.	Balance on 31st March 1916.	Receipts during 1916-17.	Total.	Issues during 1916-17.	Balance on 31st March 1917.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Stores ...	2,54,806 1 11	8,91,801 15 9	11,49,608 1 8	7,10,398 0 5	4,39,210 1 3	2,42,517 2 10	9,05,189 8 5	11,47,706 11 3	7,17,008 12 1	4,30,697 15 2
Surplus and Obsolete Stores ...	4,581 7 8	545 0 0	5,126 7 8	1,943 15 8	3,182 8 0	3,945 13 8	545 0 0	4,490 13 8	1,808 5 8	3,182 8 0
Line Suspense Account ...	90,613 6 2	4,349 6 0	94,962 12 2	5,787 11 2	89,175 1 0	86,519 14 6	4,349 6 0	90,869 4 6	1,694 3 6	89,175 1 0
Total Rs. ...	3,50,000 15 9	8,99,696 5 9	12,49,697 5 6	7,18,129 11 3	5,31,567 10 3	3,32,982 15 0	9,10,083 14 5	12,43,066 13 5	7,20,011 5 3	5,23,055 8 2
									Difference ...	8,512 2 1
										5,31,567 10 3

The difference of Rs. 8,512-2-1 between the balances on 31st March 1917, as shown above, is mainly due to non-adjustment in the books of the Chief Accountant of the value of stores issued to different Departments which will be adjusted in the next year's accounts.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 16th August 1917.

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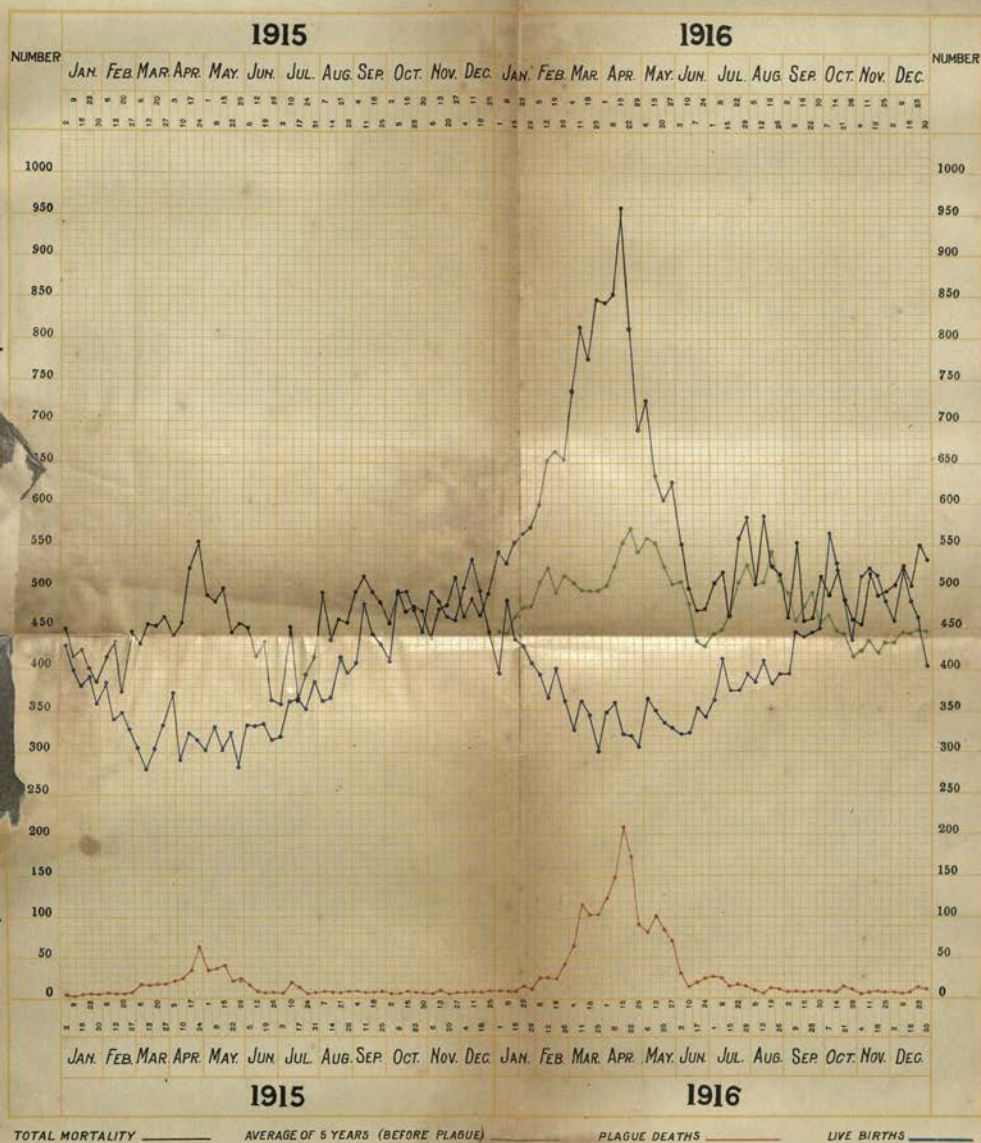
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DIAGRAM

WEEKLY TOTAL AND PLAGUE MORTALITY AND LIVE BIRTHS REGISTERED 1915 AND 1916.



PUBLIC HEALTH.

Annual Report of the Executive Health Officer for 1916.

I have the honour to submit my seventeenth Annual Report on the Conditions and Administration of the Public Health of Bombay during 1916.

As far as progress is concerned, the year has been an uneventful one in the history of the Health Department. Review of the year.

No real progress has been made in the direction of improved facilities for the Public Health Administration of the City.

The presence of large number of Troops going and returning has thrown a certain amount of extra work on the staff, who have been only too glad to be of any assistance to the Military Authorities.

Considering the circumstances and conditions prevailing, which will be referred to, the health of the City has been extremely good, compared with other years of the past decade, only bettered by the year 1915—which, for reasons which have been explained, was an exceptionally healthy year.

A certain amount of progress was made during the year with the conversion of basket privies into water-closets. The pace has been slower owing to the rise in prices of materials induced by War conditions and the desire of the Standing Committee to deal with only the worst cases.

Although funds were provided for the purchase of additional refuse motors, the continuance of War prevented their importation during the year under report. To cope with the increasing work of refuse removal, two White motor wagon chassis at Rs. 20,000 each were locally purchased in March last.

The question of improving the conservancy system and its supervision has been before a Committee of the Corporation—making little headway.

The question of installing an incinerator is at a stand still.

Little progress was made during the year in the direction of improving the insanitary areas of the City.

Financial stringency due to the War has further retarded the execution of several necessary works already sanctioned as well as the consideration of proposals submitted long ago.

The following is the list of works proposed or proposed and sanctioned: the stage of progress in each case is indicated :—

List of New Works.

No.	Names of Works.	Remarks.
1	The construction of semi-permanent quarters for halalkhors at Tardeo Flats.	The work is in progress.
2	" " " " " " for the Carcass Establishment.	The work started.
3	Erection of stables and chawls, &c., at F Ward	Land acquired for chawls—The work of filling in the land in progress.
4	" of Annesley Road Stables and Chawls	Land acquired, plans and estimates sent to the Commissioner.
5	" " Palton Road Chawl and Stables	No progress.
6	Incinerator	"
7	The re-building of Arthur Road Hospital and acquisition of land adjoining.	"

List of New Works—contd.

No.	Names of Works.	Remarks.
8	Erection of extra chawls at Walpakhady for halaikhors, land acquired.	One chawl is being erected.
9	" of stables and semi-permanent quarters at Mahim ..	Land not in our charge.
10	The Tuberculosis Ward at Maratha Hospital	No funds.
11	Erection of stables and chawls at Colaba	"
12	Depôt at Bapty Road in place of Null Bazaar	Plans being prepared.
13	The Carnac Bridge Refuse Siding	Nothing done.
14	The filling in of the tank opposite Arthur Road Hospital ..	" "
15	The filling in of land—North East of Arthur Road Hospital, Municipal land—occupied by huts, occupied by labour staff.	" "
16	Lowlying areas (Malaria), Tanks, &c.	" "
17	Sites for Dispensaries and Registration Offices and Deputy Health Officers' Offices.	" "
18	The destruction of carcasses at Chemboor	No progress.
19	Latrines at Bhatia Baug	Do.
20	" at Sewri Koliwada	Tenders are invited.
21	Enclosing the skinning ground at Kuria	The work started.
22	Enclosing the present Loading Siding at Colaba	Contract for the work given.
23	Arching over the Agripada drain passing between semi-permanent huts at Tardeo.	Provision has been made in the Budget for 1917-18.

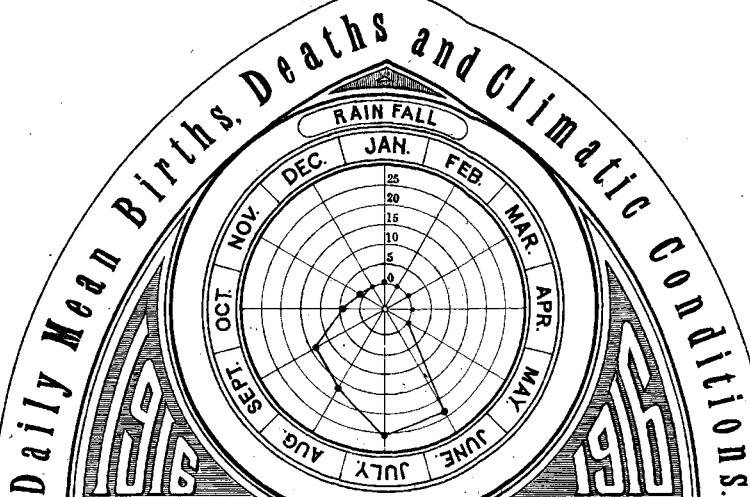
The principal statistics for the year are as follows:—

Area of Bombay City and Island	22.55 sq. miles.
Population—by the Census of 1911	979,445
Average density of population over the whole Island ..	67 per acre.
Total rainfall	86.05 inches.
Number of live births registered	21,180
Birth-rate per 1,000 of population	21.62
Number of deaths from all causes	30,574
Death-rate per 1,000 of population	31.21
Number of deaths of infants (under 1 year)	8,215
Infantile death-rate per 1,000 births registered	387.86
Number of deaths of children, 1 to 5 years	3,602
Death-rate of children, 1 to 5 years, per 1,000 of child population	11.78
Number of deaths from Plague	1,987
Death-rate from Plague	2.02
Number of deaths from Small-pox	1,021
Death-rate from Small-pox	1.04
Number of deaths from Cholera	141
Death-rate from Cholera	.14
Number of deaths from Malaria	238
Death-rate from Malaria	.24
Number of deaths from all Fevers including Malaria ..	2,141
Death-rate from all Fevers	2.18
Number of deaths from Measles	344
Death-rate from Measles	.35
Number of deaths from Tuberculosis	1,902
Death-rate from Tuberculosis	1.94
Number of deaths from Respiratory Diseases	9,649
Death-rate do. do. do.	9.85

Readings of the Thermometer.

MONTHS.	1911.			1912.			1913.			1914.			1915.			1916.	
	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.
January ..	88.4	75.5	63.1	88.5	76.9	66.4	84.5	75.7	65.4	87.2	68.7	77.0	84.7	75.4	64.4	87.8	77.6
February ..	90.2	75.6	59.2	89.0	77.3	66.7	84.6	76.6	64.8	84.5	68.4	76.0	82.2	74.9	64.4	83.3	74.3
March ..	85.8	78.7	70.4	89.2	79.9	70.8	86.0	77.6	69.3	86.3	69.2	78.0	90.2	79.8	71.0	89.2	81.3
April ..	88.6	81.2	73.4	90.7	84.5	76.2	89.3	82.7	72.5	89.6	74.4	81.9	90.2	83.9	76.2	91.1	85
May ..	91.8	85.6	78.4	91.9	86.5	79.4	92.4	86.5	79.4	91.3	80.8	86.6	92.5	87.0	80.4	92.2	85.9
June ..	90.4	83.7	77.4	93.4	85.4	76.8	93.0	83.7	74.8	91.6	77.4	85.0	92.6	85.0	77.6	80.8	88.4
July ..	88.0	82.1	75.8	87.4	82.1	76.0	86.6	81.5	74.8	88.7	76.2	82.2	88.2	82.8	76.1	87.4	81.7
August ..	84.8	80.3	74.8	86.3	81.0	75.6	85.6	81.4	75.7	85.4	76.8	81.2	85.6	81.6	76.7	80.1	81.3
September ..	85.5	81.4	77.0	87.3	81.8	76.4	87.1	81.2	76.0	86.6	76.8	81.5	86.3	81.5	76.6	86.4	80.9
October ..	90.2	82.9	74.4	91.3	82.6	74.2	89.4	82.7	75.0	92.2	76.5	84.4	89.1	81.1	71.2	89.1	81.1
November ..	90.8	81.3	74.8	91.6	80.3	68.8	89.2	79.8	70.5	91.7	73.4	63.7	89.2	81.1	73.2	87.2	81.1
December ..	89.2	80.2	70.6	85.9	77.6	68.4	87.0	76.6	64.7	88.4	67.4	77.2	87.4	76.0	66.3	88.1	81.1

DIAGRAM



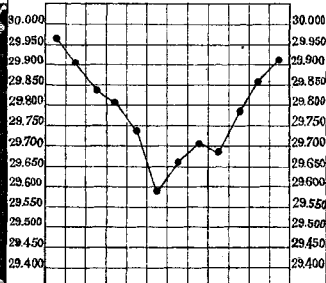
Bombay

JANUARY
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AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER

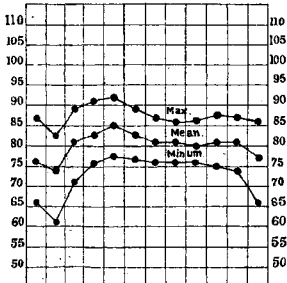
City

JANUARY
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OCTOBER
NOVEMBER
DECEMBER

BAROMETER



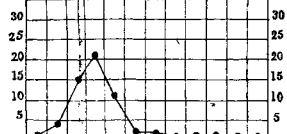
TEMPERATURE



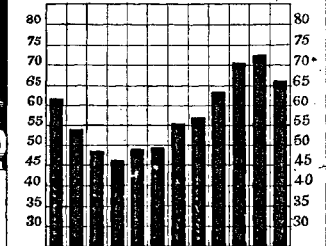
HUMIDITY



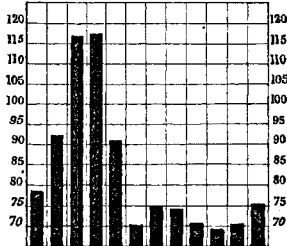
PLAGUE DEATHS (DAILY)



LIVE BIRTHS (DAILY)



TOTAL MORTALITY (DAILY)



The following table shows the Monthly and total Rainfall in the City during the last eleven years :—

Year	January to June.	July.	August.	September to December.	Total.
1906	13.35	18.10	20.91	3.94	56.30
1907	22.82	59.26	15.93	2.77	100.78
1908	15.41	21.13	9.67	7.33	53.54
1909	16.68	31.37	7.82	15.35	71.22
1910	23.95	7.42	16.89	19.60	67.86
1911	10.95	15.89	16.90	2.77	46.51
1912	11.22	25.77	9.70	7.36	54.05
1913	25.81	33.58	3.47	8.10	70.96
1914	16.84	31.12	12.44	21.22	81.62
1915	41.51	14.39	8.93	12.85	77.68
1916	23.66	25.10	17.19	20.10	86.05

Rain fell on 128 days against 100 in 1915 and 114 days in 1914.

The rainfall was distributed monthly as follows :—0.04 cents on 1 day in April, 0.07 cents on 2 days in May, 23.55 inches on 29 days in June, 25.10 inches on 25 days in July, 17.19 inches on 31 days in August, 14.59 inches on 25 days in September, 4.79 inches on 14 days in October and 0.72 cents on 1 day in November. The maximum monthly rainfall was 25.10 inches in July against 40.10 in June 1915 and 31.12 in July 1914.

The year under report following immediately on one which was in many respects a year of records and, on the whole, the healthiest in the annals of the City, must necessarily present a striking contrast in point of vital statistics. The total mortality shows an increase of 6,893 over that of 1915.

Review of the Health Conditions of 1916.

There are several factors responsible for this large increase. First, 1915 was marked by the epidemic incidence of Plague only ; this again was briefest in duration (four weeks) and lightest in mortality (590 in the whole year). In 1916, on the other hand, in addition to Plague Small-pox prevailed as an epidemic : the former from week ending 26th February to that ending 3rd June, that is, fifteen weeks, and the latter from week ending 29th January to that ending 20th May, that is, thirteen weeks. These two diseases alone account for an increase of 1,388 and 662 deaths respectively during the year. Further, Measles, Fevers, Diarrhoeal Diseases, Diseases of the Nervous and Respiratory Systems, as well as Debility registered a high mortality. The infant mortality (8,215) was 1,613 higher than in 1915 (6,602).

The total rainfall during the first six months of 1915 was 41.51, the highest for the period of at least twenty years, against 23.66 in 1916. This abundant rainfall and the cooler temperature induced thereby may have exercised a beneficial effect on the health conditions in general.

It is remarkable that of the total increase of 6,893 in the mortality of the year as compared with 1915, about 84 per cent. (5,799 deaths) was recorded in the first six months ; and the attenuated increase of 1,094 indicates a gradual improvement due to the favouring climatic conditions of succeeding months. The increases in mortality registered under principal causes during this earlier period were as under :—

Plague.	Small-pox.	Measles.	Ague and Remittent Fever.	Diarrhoeal Diseases.	Nervous Diseases.	Respiratory Diseases.	Debility.
+ 1,323	+ 723	+ 272	+ 167	+ 283	+ 285	+ 2,211	+ 143

Apart from the natural increase in the population, which must have occurred since the last Census was taken in 1911, there is ample evidence which points to an enormous adventitious addition having taken place during the year, which may largely help to interpret the augmented sickness rate and mortality of the year under review

1,128 more births were registered in 1916 than in 1915. The number of deaths registered among new arrivals not belonging to the City (1,642) marks an increase of 1,046 over 1915 (596) and is without a parallel. Along with these facts may be taken the figures of Tramway traffic during the year which show that the Company conveyed 65,90,967 more passengers in their cars than in 1915. Apart from this, over 1,50,000 sick and wounded passed through the War Hospitals in Bombay and over 4,000 cases of infectious diseases from Overseas were notified to the Health Department by the Military Authorities during the year. It may also be added that 384 cases of Jigger amongst Indian Troops were received in the Municipal Hospitals and about 3,000 cases of Malaria were notified amongst the arrivals from the Overseas.

Thus it would appear that while, on the one hand, it is not possible to assess and eliminate the effect of all these factors on the vital statistics of 1916, on the other, the exceptionally favourable features which distinguished 1915 render it peculiarly unsuitable for a basis of comparison. Nor can the estimate be nearer the truth if based on a comparison of the average vital statistics of the quinquennium preceding 1915 or of any of the years comprised in it—as in either case, the effect of the abnormal conditions induced by the continuance of the War—so much in evidence during 1916—will be absent. This comparison may nevertheless be attempted as one of the commonly accepted methods of gauging the public health conditions of any given year.

The following Table compares the number of births and deaths registered from principal causes during 1910-1914 with those in 1916 :—

Year.	Live Births.	Total Mortality	Plague.	Small-pox.	Cholera	All Fevers.	Tuberculosis.	Respiratory Diseases.	Nervous Diseases.	Diarrhoeal Diseases.
1910	19,939	34,933	3,656	1,008	107	3,113	2,339	8,212	2,003	3,352
1911	21,376	34,951	4,006	443	123	3,146	2,694	8,640	2,006	3,075
1912	21,518	38,954	1,717	979	1,790	3,585	2,794	9,686	2,236	4,544
1913	19,644	31,806	2,609	212	125	3,043	2,152	8,604	1,965	3,173
1914	19,679	31,853	2,941	252	221	2,877	1,889	8,734	1,935	3,102
1910—14 ..	20,431	34,501	2,986	575	473	3,153	2,473	8,775	2,020	3,449
1916	21,180	30,574	1,987	1,021	141	2,141	1,902	9,649	1,955	2,420
Difference ..	+ 749	- 3,927	- 999	+ 446	- 332	- 1,012	- 571	+ 874	- 74	- 1,029

It will be observed that the statistics of the year under report compare favourably with the corresponding figures for the preceding years except in respect of Respiratory Diseases and also with the quinquennial mean except in regard to Small-pox and Diseases of the Respiratory System.

The inference that this comparison indicates is that improvement in the general health conditions of the City has been continuous and the seeming set-back which a comparison with 1915 may suggest is only a transient phase due to adventitious causes which should soon disappear.

The excess of registered births over deaths first recorded during 1914 has now become a familiar feature of the vital statistics of the City ; the weeks ending 7th, 14th and 21st October, 4th, 11th and 18th November, 1916, exhibited this natural increase.

The number of live births registered during the year was 21,180, being 1,128 more than in 1915 and 1,501 more than in 1914.

Compared with the decennial averages a striking reduction will be found to have been recorded under the following causes of death :—

Cause of Death.	Decrease.
Plague	—2,342
Cholera	—347
Malaria	—25
All Fevers (including Malaria)	—1,116
Tuberculosis	—843
Infant mortality	—202
Mortality among children under 5 years	—313

Compared with the decennial mean (36,089), the total mortality in 1916 shows a saving of 5,515 lives to the City.

Natural Increase.

Comparison with the decennial averages (1906-1915).

DIAGRAM

DEATH-RATE IN BOMBAY

1872-1916.

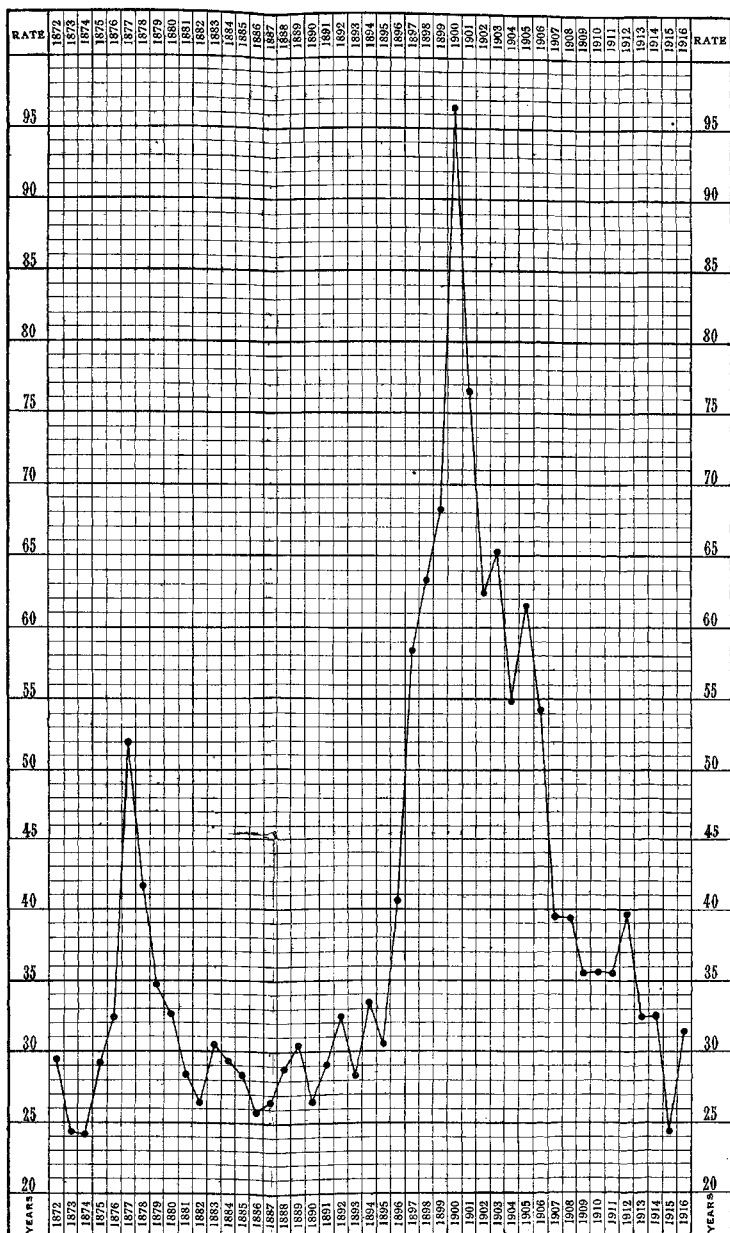


TABLE OF BIRTHS AND DEATHS REGISTERED FROM PRINCIPAL CAUSES DURING 1901-1916.

Year.	Births (excluding still-born).		Deaths from all causes (excluding still-born).		Plague.		Small-pox.		Cholera.		Malaria.		All Fevers (including Malaria.)		Measles.		Diarrhoea & Dysentery.		Tuberculosis.		Nervous Diseases.		Respiratory Diseases.		Infant Mortality.		Mortality of Children (1 to 5 years).		Still-born.
	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000 of Births registered.	No. registered.	Percent to total mortality.	
1901	13,520	17.42	59,495	76.60	18,736	24.14	159	.20	198	.25	...	...	7,921	10.20	67	.08	3,716	4.7	7,089	9.13	2,971	3.8	7,804	10.05	7,768	574.5	4,200	7.05	2,153
1902	17,599	22.67	48,414	62.38	13,820	17.80	288	.37	75	.09	...	...	4,518	5.82	642	.82	3,643	4.6	4,593	5.92	3,027	3.9	7,250	9.34	9,553	542.8	3,890	8.03	2,017
1903	16,375	21.10	50,513	65.09	20,788	26.78	1,477	1.90	17	.02	294	.37	2,500	3.22	1,115	1.43	2,760	3.5	3,475	4.47	2,282	2.9	7,101	9.15	8,718	532.3	4,087	8.09	1,818
1904	19,556	25.20	42,676	54.99	13,538	17.44	568	.73	219	.28	270	.34	2,530	3.26	229	.29	2,784	3.5	3,548	4.57	2,412	3.1	7,339	9.45	8,931	459.2	3,274	7.66	2,033
1905	19,141	24.66	47,762	61.54	14,198	18.29	2,161	2.78	26	.03	267	.34	2,878	3.70	620	.79	3,391	4.3	3,183	4.10	2,026	2.6	6,103	11.78	10,664	557.1	4,550	9.52	2,073
1906	20,769	21.24	52,874	54.07	10,823	11.06	276	.28	1,241	1.26	190	.19	4,882	4.99	936	.95	4,778	4.8	4,052	4.14	2,985	2.1	11,731	11.99	11,106	534.7	5,314	10.05	2,103
1907	19,535	19.97	38,687	39.56	9,380	6.53	86	.08	439	.44	149	.15	3,633	3.71	107	.10	3,489	3.5	3,440	3.51	1,863	1.9	9,022	9.22	8,276	423.6	3,670	9.48	1,830
1908	20,166	20.62	38,271	39.13	5,891	5.48	1,026	1.04	95	.09	331	.33	3,403	3.48	653	.66	3,184	3.2	3,023	3.09	2,083	2.1	8,954	9.15	9,077	450.1	4,173	10.90	1,918
1909	19,839	20.28	34,878	35.90	5,197	5.31	473	.48	727	.74	293	.29	2,900	2.86	75	.07	2,585	2.6	2,862	2.92	2,143	2.1	7,974	8.15	8,030	404.7	2,972	8.52	1,806
1910	19,939	20.39	34,953	35.72	3,656	3.73	1,008	1.03	107	.10	293	.29	3,113	3.18	184	.18	3,352	3.4	2,639	2.90	2,003	2.0	8,212	8.39	8,253	413.9	4,001	11.45	1,568
1911	21,376	21.82	34,961	35.69	4,006	4.09	443	.45	123	.12	334	.34	3,146	3.21	652	.66	3,075	3.1	2,694	2.75	2,006	2.0	8,640	8.82	8,120	379.8	4,227	12.09	1,759
1912	21,518	21.96	38,054	39.77	1,717	1.75	979	.99	1,790	1.82	360	.36	3,585	3.66	210	.21	4,544	4.6	2,794	2.85	2,236	2.2	9,686	9.88	9,646	448.2	4,830	12.39	1,668
1913	19,644	20.05	31,806	32.47	2,609	2.66	212	.21	125	.12	261	.26	3,043	3.10	222	.22	3,173	3.2	2,152	2.19	1,905	2.0	8,604	8.78	7,488	381.1	3,661	11.51	1,592
1914	19,079	20.09	31,853	32.52	2,941	3.00	252	.25	221	.22	213	.21	2,877	2.93	263	.26	3,102	3.1	1,889	1.92	1,935	1.9	8,734	8.91	7,580	385.1	3,775	11.85	1,561
1915	20,052	20.47	23,081	24.17	590	.61	359	.36	16	.01	205	.21	2,091	2.13	70	.07	2,195	2.2	1,710	1.74	1,536	1.5	6,770	6.91	6,602	329.2	2,535	10.70	1,532
Average of 1906-1915	20,251	20.69	36,089	36.87	4,329	4.42	511	.52	488	.49	293	.29	3,257	3.32	337	.34	3,347	3.42	2,745	2.80	1,985	2.02	8,832	9.02	8,417	415.63	3,915	10.84	1,742
Average of 1911-1915	20,453	20.88	32,251	32.92	2,372	2.42	449	.45	455	.46	275	.28	2,948	3.00	283	.28	3,218	3.28	2,248	2.29	1,936	1.97	8,487	8.66	7,887	385.61	3,895	11.79	1,622
1916	21,180	21.62	30,574	31.21	1,987	2.02	1,021	1.04	141	.14	238	.24	2,141	2.18	344	.35	2,420	2.47	1,902	1.94	1,955	1.99	9,649	9.85	8,215	387.86	3,602	11.78	1,687

The number of births registered during the year, exclusive of 1,687 still-born, was 21,180, being 1,128 more than in 1915 and 929 more than the decennial mean (1906-1915). The birth-rate per 1,000 of population, therefore, works out to 21.62 against 20.47 in 1915 and was higher than in any previous year except 1902 (22.67), 1904 (25.20), 1905 (24.66), 1911 (21.82) and 1912 (21.96).

It will be seen from the following Table, that month for month the number of births registered during 1916 exceeded those in 1915 except in December when they were 63 less.

MONTHS.						No. of Births registered in 1916.	No. of Births registered in 1915.	No. of Births registered in 1914.
January	...	...	...	...	...	1,921	1,693	1,945
February	...	...	...	...	...	1,571	1,417	1,534
March	...	...	...	...	...	1,496	1,362	1,513
April	...	...	...	...	...	1,396	1,363	1,439
May	...	...	...	...	...	1,515	1,353	1,388
June	...	...	...	...	...	1,478	1,423	1,426
July	...	...	...	...	...	1,710	1,612	1,552
August	...	...	...	...	...	1,763	1,712	1,674
September	...	...	...	...	...	1,891	1,854	1,664
October	...	...	...	...	...	2,195	2,097	1,914
November	...	...	...	...	...	2,178	2,037	1,774
December	...	...	...	...	...	2,066	2,129	1,856
TOTAL						21,180	20,052	19,679

Census of children
upto two years of
age in selected
chawls.

With a view of checking the registration of births and the vaccination of children, a Census was again taken by this Department on the 29th May last, of children upto two years of age in some of the chawls selected from the poorer localities in the City.

This was the fourth annual enumeration of the kind, the first being in 1913.

Ten of the 50 chawls selected were common to the enumerations of 1913 and 1914, but in 1915 all the chawls of the preceding year were repeated to secure a more accurate comparison of the results. In 1916, however, 50 per cent. of the chawls of the preceding year were retained and an equal number, namely 25, were newly added.

6 of the 50 chawls selected belonged to the City Improvement Trust against 8 in the preceding year and 1 to the Port Trust as in 1915, and we had the assistance and co-operation of these bodies in the enumeration of their chawls.

455 rooms in all the 50 chawls together were found vacant as against 418 in the 50 chawls in 1915.

The arrangements, as in previous years, were made by the Deputy Health Officers who supervised as well the work of enumeration; while Dr. Goldsmith, as acting Health Officer, and his two Assistants visited some of the chawls during the operations which lasted from 7 p.m. to 8 p.m. (S. T.), the hour being specially selected as one when most of the adults as well as children could be found at home.

The results of the Census, as compared with those of the previous year, are given below :—

(1) The total population enumerated in all the 50 chawls together was 15,635 against 14,652 in 1915, that is 983 more.

(2) The number of children upto two years of age enumerated was 750 against 729 in the preceding year, that is 21 more. Among them the births of 351 children were found to have been registered as born in Bombay, being equal to a ratio of 23·08 per 1,000 of population in the selected chawls. In 1915, the corresponding number of births registered was 383, and the ratio to the enumerated population 26·13.

This is much higher than the ratio of births registered in the whole City during 1915, namely, 20·47 and the average of the preceding quinquennium (1911-1915) 20·88.

But while the latter ratio is based on the total population of all degrees of social status, the ratio yielded by the child census is based on some of the poorer population only.

(3) The proportion of children enumerated upto two years of age to the total enumerated population was 4·7 per cent. against 4·9 per cent. in 1915; the proportion of children upto that age in the City to the total population by the general (decennial) Census of 1911 was 2·3.

(4) 389 out of 750 children enumerated were born out of Bombay, *i. e.*, 51·8 per cent. against 46·6 per cent. in 1915; the average number of such children for the preceding five years is 33·4 per cent. of the total number of children upto two years by the Census of 1911.

(5) Of the 361 children ascertained to have been born in Bombay, 351 or 97·3 per cent. were found to have been registered and 10 or 2·7 per cent. to have escaped registration. In 1915, it was found that 383 out of 389 births were registered, the proportion of registration being 98·4; 6 or 1·5 having escaped registration.

(6) Facts noted under (4) point to the existence in the City of a larger proportion of out-born children (51·8) than in 1915 (46·6) or the average of the preceding five years (38·2); this is our usual experience and coincides with the results of the routine enquiries, continued throughout the year by the District Nurses, which show that an increasing proportion of women go for delivery home to their parents out of Bombay, where the infant has a better chance of life.

(7) The proportion of births that escaped registration was found to be 2·77 per cent. against 1·54 in 1915 and 1·25 in 1914.

(8) This shows the approximate extent of the defective registration of births, for estimating the variations of which these enumerations are the only means. The principal causes which militate against a more complete registration have reference to the ignorance and neglect of a considerable proportion of the population; these can be counteracted only in proportion

to the efforts which the District Registrar and his special staff went forth in finding out, and registering the births occurring in the City.

(9) The number of births registered among the ~~entire~~ population of the City during the first five months of the year was 7,899, being 711 more than in 1915, and compares as under with the preceding five years :—

	January to May.						Number of live births registered.
1911	..	..	..	..	..	..	8,147
1912	..	..	..	..	..	..	8,987
1913	..	..	..	..	..	..	7,309
1914	..	..	..	..	..	..	7,819
1915	..	..	..	..	..	..	7,188
1916	..	..	..	..	..	..	7,899

Of the total number of births registered (21,180), 10,770 were males and 10,410 females ; male births were therefore to the female births in the proportion of 1,034 to 1,000, the respective birth-rates per 1,000 of sex population being 16·8 and 30·6 against 16·05 and 28·8 in

The birth-rate per 1,000 of population works out to 21·62 against 20·47 in 1915.

Calculation of the birth-rate.

I have pointed out in my previous Reports that the birth-rate stated in terms of the total population (crude birth-rate) must vary with the proportion of females of conceptive ages in population and with the age-constitution of the married female population, and that the comparison of birth-rates should therefore be based not only on the total number of population but on the number of potential mothers. If, therefore, the birth-rate for 1916 is calculated on the number of possible mothers disclosed by the Census of 1911, it comes to 101·57 against 94·37 in 1915, 94·37 in 1914 and 93·93 in 1906, when the number of possible mothers (women aged 15-45 years) was greater than in 1911. The results of calculating the proportion of registered births (1) to the total population of both sexes and all ages and (2) to the female population aged 15-45 years are embodied in the following table :—

Proportion per cent. of women aged 15-45 years in the total population of both sexes and all ages.	Proportion per cent. of married women in population aged 15-45 years.	Of the married women aged 15-45 years, the proportion per cent. of four groups of ages				Persons married to 1,000 marriageable persons in the population.	Birth-rate calculated		
		Aged 15-20 years.	Aged 20-25 years.	Aged 25-35 years.	Aged 35-45 years.		On the number of Births registered in	Per 1,000 of total population at all ages.	Per 1,000 of female population aged 15-45 years.
22·05	77·08	18·55	25·60	39·35	16·49	714·94	1901	17·42	79·00
22·61	77·04	17·62	27·69	39·69	14·77	738·45	1906	31·21	93·93
21·28	76·75	18·25	27·30	39·69	14·75	716·75	1916	21·62	101·57

Besides the factors which influence in common the birth-rate of every community, there are peculiar to this City :—The fairly well-established custom of sending prospective mothers home to their parents, where the baby has a better chance of life, so that there is in the City a number of children of mothers belonging to but born outside the City and therefore not registered ; (2) the omission of parents or relatives to register births through ignorance or neglect, so that there is a considerable number of children who have escaped registration.

During 1916, 6,269 of such children under one year of age were primarily vaccinated in the City ; but a large number must have escaped vaccination either by death or postponement. It is seen from table 22, appended to the report, that 75·35 per cent. of the births registered during the year ; it may, therefore, be assumed that 75·35 per cent. of the unregistered children also were vaccinated, the balance of 24·65 per cent. having escaped vaccination either by death or postponement.

Corrected number of births and birth-rate.

Thus the total population of the City during the year under report was

Number of births registered	21,180
Number of births ~~not~~ registered (of children primarily vaccinated in Bombay)	6,269
Number of births unregistered and which escaped vaccination (being 24·65 per cent)	2,051
Total No. of Births	14,860

giving the birth-rate of 30·11 per 1,000 of population.

No prosecution under Section 446 (1) of the City of Bombay Municipal Act was instituted during the year for failure to notify the occurrence of births to this Department.

The birth-rate registered for the whole population was 21·62; this was higher than 1913 (20·05), 1914 (20·09) and 1915 (20·47), but lower than in 1911 (21·80) and 1912 (21·10) and higher again than in any previous year since 1905 (24·66).

Taking, however, Hindu communities as a whole, the birth-rate registered by them came out to 20·56 against 19·22 in 1914 and 18·84 in 1915.

Among the different races inhabiting the City, Hindus, low caste, and Lingaits recorded the highest rates during the year, 55·49 being registered by the former and 47·49 by the latter against 55·83 and 2·54 respectively in 1915; the lowest rate (11·10) was recorded by Brahmins against 2·54 by Lingaits in 1915.

Compared with 1915, every community registered an improved birth-rate with the exception of Hindus, low caste (55·49), Jews (32·28), Native Christians (27·37) and Buddhists (13·84).

The birth-rate among Mussalmans which was 20·80 in 1914 and 21·16 in 1915 further improved to 22·20 in the year under report; among Europeans (15·46), it was higher than in 1915 (14·88) and near to but lower than that of 1914 (15·80); while among Parsees (28·03) it exceeded even that of 1914 (27·13); among Native Christians (27·37), the decrease, compared with 1915 (27·66), was slight.

TABLE OF BIRTH-RATES FOR THE DIFFERENT RACES OF THE CITY FOR 1915-1916.

RACE OR CASTE.										Population by the Census of 1911.	Birth-rate for 1915.	Birth-rate for 1916.
Hindus.	Jains	...	...	...	...	...	...	...	...	20,460	15·24	15·78
	Brahmins	...	...	...	...	...	...	...	...	53,656	9·95	11·10
	Lingaits	...	...	...	...	...	...	...	...	1,179	2·54	47·49
	Bhatias	...	...	...	...	...	...	...	...	7,780	15·42	16·70
	Hindus of other Castes	...	...	...	...	...	...	...	...	547,192	16·74	18·20
	Hindus, Low Caste	...	...	...	...	...	...	...	...	54,235	55·83	55·49
Mussalmans (including Negro-Africans)										179,346	21·16	22·20
Parsees										50,931	26·89	28·03
Jews										6,597	34·56	32·28
Native Christians										41,273	27·66	27·37
Eurasians										4,188	34·14	35·10
Europeans										11,894	14·88	15·46
Buddhists										578	27·68	13·84
Other and Unknown Castes										136	147·05	80·88
Total										979,445	20·47	21·62

TABLE OF BIRTH-RATES FOR THE DIFFERENT SECTIONS IN THE CITY FOR 1915-1916.

Ward.	Sections.								Population by the Census of 1911.	Birth-rate for 1915.	Birth-rate for 1916.
A	Upper Colaba	...	...	...	...	...	...	...	1,557	60.37	66.15
	Middle and Lower Colaba	...	...	...	...	...	...	...	19,679	18.05	18.14
	Fort, Southern	...	...	...	...	...	...	...	3,462	7.79	4.33
	Fort, Northern	...	...	...	...	...	...	...	25,400	23.11	27.16
	Esplanade	...	...	...	...	...	...	...	17,761	14.52	14.24
B	Mandvi	...	...	...	...	...	...	...	33,202	12.07	16.35
	Chukla	...	...	...	...	...	...	...	24,231	18.90	18.81
	Umarkhadi	...	...	...	...	...	...	...	45,679	25.13	28.39
	Dongri	...	...	...	...	...	...	...	27,246	16.51	17.43
C	Market	...	...	...	...	...	...	...	30,172	9.57	11.13
	Dhobi Talao	...	...	...	...	...	...	...	38,684	21.11	22.07
	Fanaswadi	...	...	...	...	...	...	...	27,403	21.27	21.85
	Bhuleshwar	...	...	...	...	...	...	...	36,459	16.44	18.07
	Khara Talao	...	...	...	...	...	...	...	22,979	22.28	24.06
	Kumbharwada	...	...	...	...	...	...	...	27,703	19.85	23.49
D	Khetwadi	...	...	...	...	...	...	...	31,937	21.54	23.17
	Girgaum	...	...	...	...	...	...	...	30,779	21.50	23.78
	Chowpati	...	...	...	...	...	...	...	11,397	23.60	23.60
	Walkeshwar	...	...	...	...	...	...	...	10,640	21.24	21.42
	Mahalakshmi	...	...	...	...	...	...	...	26,302	23.67	27.10
E	Mazagon	...	...	...	...	...	...	...	30,075	25.46	25.70
	Tarwadi	...	...	...	...	...	...	...	28,424	30.25	30.22
	Second Nagpada	...	...	...	...	...	...	...	21,700	22.62	23.08
	Kamathipura	...	...	...	...	...	...	...	36,751	22.25	23.07
	Tardeo	...	...	...	...	...	...	...	27,758	22.94	25.00
	Byculla	...	...	...	...	...	...	...	75,348	24.31	23.96
	First Nagpada	...	...	...	...	...	...	...	6,414	28.21	23.03
F	Parel	...	...	...	...	...	...	...	45,474	19.26	19.28
	Sewri	...	...	...	...	...	...	...	19,067	22.86	23.12
	Sion	...	...	...	...	...	...	...	30,680	26.49	26.82
G	Mahim	...	...	...	...	...	...	...	30,492	29.90	29.71
	Worli	...	...	...	...	...	...	...	89,611	21.58	22.25
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	...	...	44,979	.....	.04
Total									979,445	20.47	21.62

In considering the birth-rates of the different Sections of the City, it is necessary to bear in mind that these ratios cannot be of much value for purposes of comparison, owing to the uneven distribution of women and married women of fertile age, which must largely account for the advantage which some Sections may appear to exhibit over others.

Birth-rate by Sections.

The recorded birth-rate for the entire City is 21.62 and the Sections with appreciably lower rates, excluding Fort Southern which is mostly a business locality, are Middle and Lower Colaba (16.14), Esplanade (14.24), Mandvi (16.35), Chukla (18.81), Dongri (17.43), Market (11.13), Bhuleshwar (18.07), Walkeshwar (21.42) and Parel (19.28). The highest birth-rate was registered as in 1915 in Upper Colaba (66.15), which is however higher than in that year (60.37); the next highest is (30.22) in Tarwadi and then (29.71) in Mahim. The lowest rate (4.33) was recorded, as in previous years, for Fort Southern which in the main is not a residential locality; the next lowest was (11.13) for Market Section.

The total number of deaths registered from all causes during the year was 30,574 against 23,681 in 1915, being 6,893 more than in the latter year.

Total Mortality and the Death rate.

The general death-rate recorded was 31.21 against 24.17 in 1915. The total mortality as compared with the preceding decennium (1906-1915) shows a decrease of 5,515 deaths and is equivalent to a reduction in the death-rate of 5.66 per 1,000 living.

The mortality of the City steadily fell from 79,350 in 1900 (rate 96.55) to 59,495 in 1901 (rate 76.66) and from 52,874 in 1906 (rate 54.07) to 38,687 in 1907 (rate 39.56), to 34,878 in 1909 (rate 35.66) and, with a slight rise in 1910 (35.72) and 1911 (35.69), rose to 38,954 (39.77) in 1912, and then suddenly dropped to 23,681 (rate 24.17) in 1915 and rose to 30,574 (rate 31.21) in 1916.

This remarkable fall in the mortality from 79,350 in 1900 to 30,574 in 1916 is equivalent to a reduction in the death-rate of 65.34 per 1,000 living, thus showing a saving to the City of 48,776 lives.

The figure 30,574 however represents the gross mortality of the City and is subject to correction. To arrive at a correct estimate, it is necessary, on the one hand, to exclude all deaths amongst persons newly arrived into the City and not belonging to it; on the other, to include all deaths which occurred among those who, belonging to it, died elsewhere. The resulting mortality may be termed corrected mortality. Mortality is generally corrected for differences of sex and age-constitution of the population; but it may also be corrected for other considerations, such as the deletion of those, who not belonging to the City, helped to swell its mortality returns, and the inclusion of those, who belonging to it, went out to die either (1) to their homes up-country or to the numerous outlying Sanatoria. Such adjustment is, quite as truly as the other, a process of correction.

Adopting the suggestion of the Standing Committee of the Corporation (*vide* their Review of my Report for 1910), letters of enquiry were, as in previous years, addressed to the authorities in charge of the following out-lying Sanatoria and Convalescent Homes with a view to ascertaining the number of deaths among those who belonged to Bombay and went to the Institutions for treatment or change of air: (1) Deolali, (2) and (3) Nasik, (4) Dumas, Surat (5) Khandala, (6) Poona, (7) Coorla, (8) Dharampur (Simla Hills), (9) Panchagani, (10) Karla, (11) Lonavla and (12) Bandra.

The replies received show that only 4 deaths among such persons occurred during 1916.

It is obviously impossible to get at the number of those who died in their homes up-country; we have no record of such deaths, nor can one be compiled. On the other hand, the number of deaths among new arrivals not belonging to Bombay was 1,642.

Applying these corrections, the mortality of the City, as based on the available data, works out to $(30,576 - 1,642 + 4 =) 28,938$ the lowest registered since the appearance of Plague—giving the ratio of 29.54 per 1,000 of the population—the lowest since 1893 (28.16). Such an estimate of the City's mortality is desirable as it marks a greater approximation to the truth than the bare statement of the number of deaths in the community. This approximation would be still closer, but for the absence of any data regarding deaths occurred up-country among the inhabitants of this City; this absence largely accounts for, if it did not also accentuate, the disparity between the factors of inclusion and exclusion; though, as an offset against the possible reduction due to the omission of such deaths, may be mentioned those occurring among the undoubtedly large number who are attracted to the metropolis for various reasons—visitors bent on pleasure or business, vagrants, labourers in search of work, sick persons in search of expert medical advice or treatment, and others who come in order to be with their relations; in addition to these, there has been a large influx from the various theatres of War due to Bombay being the chief port of embarkation and arrival of troops, and to its position as the capital of the Presidency and the facilities it offers for the care and comfort of the sick and wounded; these, though not proper units of the population, are counted among them when they happen to die after a stay of more than ten days.

It is, however, not improbable that in normal times these more or less balance each other and the death-rate is not materially affected by the want of either figure.

The War and the presence of large number of troops and sick and wounded and labour passing through and returning from Overseas must have some influence on these figures.

The following table of mortality exhibits the proportional contribution to the total result under each age-group in the two sexes:—

TABLE OF PERCENTAGES TO THE TOTAL MORTALITY BY AGE-PERIOD IN 1914, 1915 AND 1916.

Age-Period.	1914.		1915.		1916.					
	Total Mortality.	Percent. age.	Total Mortality.	Percent. age.	MALES.		FEMALES.		PERSONS.	
					No. of deaths.	Percent. age.	No. of deaths.	Percent. age.	No. of deaths.	Percent. age.
Under 1 year...	7,580	23.79	6,602	27.87	4,840	24.39	3,875	29.97	8,215	26.86
1 to 5 years	3,775	11.85	2,535	10.70	1,805	10.22	1,737	13.90	3,602	11.78
5 to 10 "	1,198	3.76	723	3.05	533	3.03	516	3.99	1,049	3.43
10 to 15 "	1,040	3.26	633	2.67	537	3.04	515	3.98	1,052	3.44
15 to 20 "	2,421	7.60	1,553	6.55	1,232	6.93	917	7.09	2,149	7.02
20 to 30 "	5,367	16.84	3,788	15.99	3,277	17.57	1,872	14.48	5,149	16.84
30 to 40 "	3,852	10.46	2,344	9.89	2,177	12.33	960	7.42	3,137	10.26
40 to 50 "	2,372	7.44	1,772	7.48	1,383	7.41	627	4.85	2,010	6.57
50 to 60 "	2,011	6.31	1,022	6.84	1,170	6.63	639	4.94	1,809	5.91
60 years and upwards.	2,750	8.63	2,105	8.88	1,185	6.71	1,208	9.34	2,393	7.82
Unspecified Ages	7	.02	4	.01	8	.04	1	...	9	.02
Total	31,853	100.00	23,681	100.00	17,647	100.00	12,927	100.00	30,574	100.00

It will be observed that, of the total number of 30,574 deaths in the year under review, 17,647 were among males and 12,927 among females against 13,020 males and 10,661 females in 1915. The male death-rate therefore works out to 27·56 and the female to 38·11 per 1,000 of sex population against 20·33 and 31·43 respectively in the preceding year. This disparity of rates of mortality among males and females is largely to be accounted for by the preponderance of males who form nearly two-thirds of the population.

There is an excess of male deaths over female in all the age-groups upto 60 years and beyond; in the age-groups of 30-40, 40-50 and 50-60, the male mortality (2,177, 1,383 and 1,170) is almost the double of that among females (960, 627 and 639).

The highest percentage of deaths to the total mortality in the male (24·59) as well as in the female (29·97) and the entire population (26·86) occurred, as usual, among children in the first year of life; the next highest (male 17·57, female 14·48 and the whole population 16·84) was recorded in the age-group of 20-30 years. This uniformity in the excessive mortality in the two sexes is peculiar to these age-periods only; as in the preceding year, the next highest percentage of deaths (12·33) occurred among males in the age-group of 30-40 years, but among females (13·90) in the age-group of 1-5 years.

The lowest percentage of mortality among males (3·02) as well as in the entire population (3·43) occurred during 5-10 years of life and among females (3·98) in the age-period of 10-15 years.

The total mortality among infants or children upto one year of age during the year under notice was 8,215. It was 1,613 more than in 1915 (6,602), but 309 less than the average of the preceding quinquennium (1912-1916).

Infant Mortality.

The percentage of infant mortality to the total mortality at all ages during the year was 26·86 against 27·87 in 1915. The ratio per 1,000 of births registered was 387·86. This was higher than in the three years immediately preceding (329·2 in 1915, 385·1 in 1914 and 381·1 in 1913) or in 1911 (379·8) but lower than in any other previous year.

Infant mortality has been calculated above on the actual number of births registered; but for a correct estimate, it has to be calculated on the corrected number of births, so as to include infants who died during the year without their births being registered. The corrected number of births, as we have seen above, works out to 29,499 and therefore gives an infant mortality equal to the ratio of 278·48 per 1,000 against 235·4 in 1915 and 277·05 in 1914.

The variations and causes of infant mortality may be studied with the aid of the following table :—

TABLE OF INFANT MORTALITY BY MONTHS IN 1916 AND 1915.

MONTHS.	1916.						1915.
	Debility.	Nervous Diseases.	Respiratory Diseases.	All Causes.			All Causes.
				Males.	Females.	Total.	
January	175	106	179	311	312	623	421
February	162	89	200	336	314	650	369
March	154	109	275	407	385	792	468
April	155	113	287	419	388	807	514
May	163	104	274	391	336	727	537
June	128	105	198	310	300	610	512
July	201	126	254	431	368	799	598
August	232	108	210	363	345	708	665
September	214	99	149	323	274	597	658
October	187	118	178	362	272	634	661
November	198	124	167	316	307	623	559
December	191	116	172	341	274	615	640
Total	2,165	1,317	2,543	4,340	3,875	8,215	6,602

The foregoing table exhibits the distribution of infant mortality during the different months of the year; three columns giving the number of deaths from causes most fatal to children have been added, as they serve to explain the monthly fluctuations and their extent.

Infant Mortality by Months.

Compared with 1915, infant mortality in the year under review was higher month for month except in September (—61), October (—27) and December (—25); the aggregate decreases recorded during these three months being 113. The highest infant mortality in a month was 807

registered in April against 665 in August in 1915; the lowest was 597 registered in the month of September; this was 228 more than the lowest monthly figure for 1915, which was recorded in the month of February (369). From the month of January, the mortality rose steadily to 807 in April, and then fell to 610 in June, rising to 799 in July; during the next two months it declined to 597 and increased to 653 in the following two months; in the closing month of the year it stood at 615.

Out of the total increase of 1,613 deaths in 1916 as compared with 1915, nearly 33 per cent. (or 537 more deaths) were registered under Respiratory Diseases; 19 per cent. (or 311 more deaths) were registered under Nervous Diseases (which include Infantile Convulsions); 10 per cent. or 163 deaths under Debility.

It will be observed from the following table that Debility and the Diseases of the Nervous and Respiratory Systems were responsible in the aggregate for over 73 per cent. (6,025) deaths of the total infant mortality (8,215), against nearly 75 per cent. in 1915, and about 77 per cent. in 1914.

INFANT MORTALITY FROM PRINCIPAL CAUSES FROM 1910 TO 1916.

Cause of Death.	1910.	1911.	1912.	1913.	1914.	1915.	Average (1911 to 1915).	1916.	Increase or Decrease.
Small-pox	264	98	274	55	60	64	110	259	+ 149
Measles	56	238	82	66	82	104	113	134	+ 21
All Fevers... ..	238	251	277	201	163	226	223	229	+ 6
Diarrhoea and Dysentery ...	674	581	900	615	579	670	659	481	— 178
Premature Birth	147	175	219	181	187	182	179	357	+ 178
Debility	2,567	2,364	2,581	2,207	2,187	2,381	2,344	2,165	— 179
Diseases of the Nervous System.	1,402	1,400	1,570	1,278	1,271	1,384	1,380	1,317	— 63
Do. do. Respiratory System.	2,292	2,364	2,877	2,113	2,425	2,414	2,438	2,543	+ 105
All Causes	8,253	8,120	9,646	7,488	7,580	6,602	8,210	8,215	+ 5

Generally speaking these are a group of causes which have reference to the social environment and economic condition of the parents, as regards the home and its surroundings, occupation of mothers entailing hard work, their habits and poverty, all of which affect the mother during pregnancy and influence the health of the child before and after birth and, aided by the unhygienic conditions in which a large proportion of the infants are born, help to swell the number of those who come into the world only to die.

Compared with the averages of the preceding five years, an appreciable reduction in infant mortality was in evidence under the following causes: Diarrhoea and Dysentery (—178); Debility (—179) and Diseases of the Nervous System (—63). The mortality from Small-pox (259) was 195 higher than in 1915 and 149 more than the quinquennial mean.

The mortality among children born prematurely (357) was higher than in 1915 (182) and exceeded the last quinquennial average by (178).

The following table classifies the mortality from principal causes among infants arranged under the three age-periods of 1-30 days, 1-6 months and 7-12 months during 1916; the corresponding figures for 1915 have been inserted for comparison.

From an examination of the figures it will be noticed that to infants in the age-period of 7-12 months Small-pox (131), Measles (89), Ague and Remittent Fever (126), Diarrhoea and Dysentery (309), Diseases of the Nervous (313), and Respiratory Systems (1,349) were most fatal; while deaths due to Diseases of the Nervous System (727) were most numerous in the

age-group of 1-6 months, as those due to Debility (1,984) were in the first 30 days. Out of 357 deaths due to immaturity at birth, 353 occurred in the first month of life and the remaining 4 in the next age-period.

Further study of the subject may be pursued with the help of the following table which shows the percentage or proportion of mortality under each principal cause of death to the total mortality from all causes among infants in each of the three age-groups.

TABLE OF DEATHS AMONG INFANTS FROM PRINCIPAL CAUSES BY AGE-PERIODS IN 1916 AND 1915.

Age-Period.	Year.	Small-pox.	Measles.	Malaria.	Ague and Remittent Fever.	Diarrhoea and Dysentery.	Premature Birth.	Debility.	Nervous System.	Respiratory System.	All Causes.	Percentage of deaths in each age-period to total deaths under 1 year of age.
1 to 30 days ...	1916	10	6	1	6	22	353	1,984	277	83	2,831	34.46
	1915	2	...	...	17	21	207	1,768	276	63	2,417	36.61
1 to 6 months ...	1916	118	39	2	87	150	4	157	727	1,111	2,575	31.34
	1915	30	8	3	59	146	4	212	530	857	1,990	30.34
7 to 12 months ...	1916	131	89	7	126	309	...	24	313	1,349	2,809	34.19
	1915	32	26	4	86	334	1	22	200	1,086	2,195	33.24
Total ...	1916	259	134	10	219	481	357	2,155	1,317	2,548	8,211	...
	1915	64	34	7	162	501	212	2,003	1,006	2,006	6,603	...

Scrutinizing the foregoing table with the aid of the following, it will be noticed that out of 21,180 children registered as born during the year, 2,831 or 414 more than in 1915 died within the first month of life; for nearly three-fourths of these (1,984 or 70.8 per cent. against 1,768 or 73.14 per cent. in 1915), the cause of death assigned was Debility, that is want of vitality, immaturity at birth, wilful or ignorant neglect and the methods adopted by the unskilled or untrained women attending the labour; (ii) 2,575 or 585 more than in 1915 died before attaining the age of six months; the cause of death in the descending order of incidence being 43.14 Diseases of the Respiratory System (against 43.06 in 1915), 28.23 Diseases of the Nervous System (against 26.63 in 1915), 6.09 Debility (against 10.65 in 1915) and 5.82 Diarrhoea and Dysentery (against 7.33 in 1915); (iii) 2,809 or 614 more than in 1915 died before attaining the age of twelve months, the cause of death being 48.02 Diseases of the Respiratory System (against 49.47 in 1915), 11.14 Diseases of the Nervous System (against 9.11 in 1915), 11.00 Diarrhoea and Dysentery (against 15.21 in 1915).

It will be observed that of the total mortality under 1 year of age, more than 34 per cent. occurred in the first month of life and, further, that of the deaths at this early period of life, nearly three-fourths are due to Debility; and in the second and third groups the highest proportion of deaths is associated with the Diseases of the Respiratory System. The next most fatal cause is the Diseases of the Nervous System in the first and second groups and Diarrhoea and Dysentery in the third, all of which denote exposure and defective feeding.

TABLE OF PERCENTAGES OF INFANT DEATHS FROM PRINCIPAL CAUSES IN 1916.

Age-Period.	Small-pox.	Measles.	Malaria.	Ague and Remittent Fever.	Diarrhoea and Dysentery.	Premature Birth.	Debility.	Nervous System.	Respiratory System.	All Causes.
1 to 30 days ...	.85	.21	.03	.21	.77	12.46	70.08	9.78	2.93	34.46
1 to 6 months ...	4.58	1.51	.07	3.37	5.82	.15	6.09	28.23	43.14	31.34
7 to 12 months ...	4.66	3.16	.24	4.48	11.00	...	.85	11.14	48.02	34.19
Total ...	3.15	1.63	.12	2.66	5.85	4.31	26.35	16.03	30.95	...

Infant Mortality by Race or Caste.

TABLE OF MORTALITY AMONG INFANTS AND DEATH-RATE PER 1,000 OF BIRTHS REGISTERED IN EACH RACE IN 1915 AND 1916.

RACE OR CASTE.	1915.			1916.		
	Deaths under 1 year.	Number of Births registered.	Infant mortality per 1,000 of Births in each caste.	Deaths under 1 year.	Number of Births registered.	Infant mortality per 1,000 of Births in each caste.
HINDUS.						
Jains	235	312	752.20	395	323	1,222.91
Brahmins	286	554	535.58	347	596	582.21
Lingaits	26	3	8,666.00	45	56	803.57
Bhatias	47	120	391.66	53	130	407.69
Hindus of other Castes ...	2,940	9,163	320.86	3,803	9,961	381.78
Hindus, Low Caste ...	1,082	3,028	357.33	1,274	3,010	423.25
Mussalmans (including Negro-Africans) ..	1,274	3,796	335.61	1,603	3,983	403.21
Parsees	210	1,370	153.28	185	1,428	129.55
Jews	36	228	157.89	47	213	220.65
Native Christians	384	1,142	336.25	385	1,130	340.70
Eurasians, ...	26	143	181.81	28	147	190.47
Europeans	27	177	152.54	28	184	152.17
Buddhists	2	16	125.00	3	8	375.00
Other and unknown Castes	27	20	1,350.00	16	11	1,454.54
Total ...	6,602	20,052	329.24	8,215	21,180	387.86

The fore-going table gives the number of deaths among infants and of births registered in the different races of the population, and the death-rates calculated per 1,000 of births registered in the particular race or caste; corresponding figures for 1915 have been added for comparison.

Compared with 1915, a considerable improvement is noticeable in the infantile death-rate among Parsees (from 153.28 to 129.55) and a slight one among Europeans (from 152.54 to 152.17); all other communities recorded an increase.

Among Hindus of all castes as a whole and Mussalmans, who together form the bulk of the City's population, the ratios stand as under:—

	1915.	1916.	Increase or Decrease.
Hindus	350.9	420.36	+ 70.27
Mussalmans	335.61	403.21	+ 67.60

The infantile death-rate for the whole City, calculated on the total number of registered births, was 387.86. The highest death-rate, calculating for different castes on the number of births registered among them, was recorded among Jains (1222.9) and the next highest among Lingaits (803.57), who are however a small community numbering 1,179, and the lowest (129.555), among Parsees. In the ascending order of incidence, after Parsees stand Europeans (152.17), Eurasians (190.47), Jews (220.65), Native Christians (340.70), Hindus of other Castes (381.78), Mussalmans including Negro-Africans (403.21), Bhatias (407.69), Hindus, Low Caste (423.25), Brahmins (582.21), Lingaits (803.57); Buddhists, with a population of 578, registered the rate of 375.00; the number of births among them being 16 and the number of infantile deaths 2.

The ratios among principal communities during 1916 and the preceding five years are given in the following table:—

INFANT MORTALITY PER 1,000 OF BIRTHS REGISTERED IN THE CASTE.

	1911.	1912.	1913.	1914.	1915.	1916.
Hindus (All Castes)	407.0	483.7	408.3	410.4	350.9	420.36
Mussalmans (including Negro-Africans).	388.5	421.6	369.5	391.0	335.6	403.21
Parsees	186.2	206.2	188.1	173.6	153.2	129.55
Jews	157.8	302.2	176.4	159.6	157.8	220.65
Native Christians	344.0	462.2	419.0	398.1	336.2	340.70
Europeans	178.1	207.9	151.9	207.4	162.5	152.17
Eurasians	230.3	388.2	230.0	244.2	181.8	190.47

With a view to measuring the relative incidence of infant mortality in the different Sections of the City, the following table is given, showing the ratio of infantile deaths occurring in each Section to the number of births registered in that particular Section. Apart from the irregular distribution of the female population in the different Wards of the City, such measurement of the infant mortality is not altogether reliable owing to the following factors, which inevitably introduce an element of error or uncertainty in the calculations based on the Sectional data. The difficulties in the registration of all births occurring in the City, consequent on parental ignorance or neglect, varying with the class of people inhabiting the different Sections; the prevailing custom of sending prospective mothers home to their native districts for confinement, resulting in an excess of infants in the City over births actually occurred and registered in it; the inflation of the infantile death-rate due to out-born infants dying in the City; the inter-sectional movement of population, making it possible for children born in one Section to die in another; and, lastly, the migratory habits of the higher official and the affluent classes who send out their families to the most congenial or least inconvenient latitudes during certain seasons of the year: all these causes operate in varying degrees in the different Sections of the City and influence the infantile death-rate.

Infant Mortality
by Sections.

The rate of infant mortality for the entire City in 1916 based on the number of births actually registered was 387·8 against 329·2 in 1915 and 385·1 in 1914. Compared with the mean of the preceding five years, the reduction is 13·6 and the Sections which showed a higher incidence of such mortality during the year under review were:—

Fort Southern (666·6) in A Ward, (II) all the Sections of B Ward (Mandvi 565·3, Chukla 504·3, Umerkhandi 366·2, Dongri 402·1), (III) Market (645·8), Bhuleshwar (491·6), Khara Talao (370·7) and Kumbharwada (384·0) in C Ward, (IV) Girgaum (377·0) in D Ward, (V) Mazagon (345·4), Second Nagpada (425·1), Kamathipura (458·7), Byculla (517·1) in E Ward, (VI) Parel (411·6) and Sewri (426·3) in F Ward, (VII) Worli (402·7) in G Ward.

These Sections, excepting, Fort Southern which is mainly a business locality, are among those with which a high rate of mortality is generally associated, being largely inhabited by the poor and ignorant classes, living in insanitary houses and amidst similar surroundings.

Fort Southern registered the highest infantile death-rate (666·6) and Upper Colaba (203·8) the lowest in the year under report.

Compared with last year, all the Sections of the City exhibit a considerable enhancement in the death-rate among infants, except Chowpati and Tarwadi which show a reduction: the former from (234·2) to (223·0) and the latter from 366·2 to 318·9.

STATEMENT OF THE RATIO OF DEATHS AMONG CHILDREN UNDER 1 YEAR PER 1,000 OF
BIRTHS REGISTERED IN EACH SECTION IN 1915 AND 1916.

Ward.	Sections.	1915.	1916.	Ward.	Sections.	1915.	1916.
A	Upper Colaba	191·4	203·8	E	Mazagon	332·8	345·4
	Middle and Lower Colaba.	350·1	399·3		Tarwadi	366·2	318·9
	Fort, Southern	148·1	633·6		Second Nagpada	389·0	425·1
	Fort, Northern	264·0	307·2		Kamathipura	343·5	458·7
	Esplanade	248·0	292·4		Tardeo	310·8	381·8
B	Mandvi	538·6	565·3	F	Byculla	354·2	517·1
	Chukla	377·7	504·3		First Nagpada	237·5	287·4
	Umerkhandi	353·6	366·2		Parel	320·7	411·6
	Dongri	391·1	402·1		Sewri	302·7	423·3
C	Market	477·5	645·8	G	Sion	270·6	302·5
	Dhobi Talao	291·3	306·7		Mahim	248·9	310·1
	Fanaswadi	267·5	335·5		Worli	354·1	402·7
	Bhuleshwar	345·0	491·6		Harbour, Docks, ..	..	..
	Khara Talao	349·6	370·7	Railways and Homeless }		..	..
D	Kumbharwada	378·1	384·0				
	Khetwadi	268·3	304·0	Total		329·2	387·8
	Girgaum	320·2	377·0				
	Chowpati	234·2	223·0				
	Walkeshwar	283·1	307·0				
	Mahalakshmi	275·8	281·1				

Infant Mortality by
the number of
rooms occupied.

The following table classifies births and the number of deaths that occurred among these infants by the number of tenements occupied by the parents :—

NUMBER OF BIRTHS AND INFANT MORTALITY BY THE NUMBER OF ROOMS
OCCUPIED IN 1916.

	1 Room and under.	2 Rooms.	3 Rooms.	4 or more Rooms.	Roadside.	Hospitals.	Total No. in 1916.
Births	14,320	2,693	817	743	59	2,548	21,180
Infant Mortality	6,508	1,007	188	177	101	234	8,215
Infant Mortality per 100 Births registered.	45·44	37·39	23·01	23·82	171·18	9·18	38·78

It will be observed from the foregoing statement that of the 21,180 live-births registered during the year, 14,320 or 67·6 per cent. occurred in tenements of one room or less and the number of deaths among such was 6,508 or 45·4 per cent. of the births ; this proportion varies inversely as the number of rooms occupied ; 37·3 per cent. in the case of two-room tenements, and 23 per cent. in the case of three-room tenements. The lowest percentage of infant mortality (9·18) occurred among children born in Hospitals. These figures cannot however be compared with those of 1915 which were for three months only.

Measures for the re-
duction of Infant
Mortality.

It has been pointed out that poverty, ignorance, neglect and insanitary surroundings are the principal causes of high infant mortality. The problem is large and many-sided, and the social and economic factor is one with which the Health Department can hardly hope to grapple alone with much hope of success. Voluntary effort and private agencies need, therefore, to be enlisted and encouraged. Bombay with its large population and huge proportion of poor (76 per cent.) offers a very wide field for many such agencies which can be linked up closely with its sanitary administration as in the Cities of the West. In its efforts for sanitary improvement and the reduction of infant mortality, the Health Department is indebted already to two such agencies whose activities run along closely parallel lines : the Bombay Sanitary Association which has been labouring incessantly for a decade and a half in the task which it has set itself of educating the public in matters of sanitation and hygiene and the daughter institution of the Lady Willingdon Scheme which has been at work these two years endeavouring to improve the condition of women during confinement and the care of infants.

The Municipal Nurses, and the Health Visitors of the Sanitary Association and the Lady Willingdon Scheme, who are all qualified Midwives, daily visit the localities and chawls inhabited by the poor and help to diffuse and popularize elementary knowledge of the principles of health and hygiene and carry such knowledge and habit into the homes and lives of the ignorant, giving advice on the prevention of disease and the care and up-bringing of infants, and bring to the notice of the authorities unregistered births and unvaccinated children, and cases of sickness ; they also find out prospective mothers among the poor and induce them to go to the Maternity Homes provided for them free ; and, where such recourse is not sought, attend on the women in their homes providing them with necessaries in the shape of milk, blanket, charpoy, etc. There are at present three Maternity Homes for the poor—one Municipal, at Bellasis Road, and two under the Lady Willingdon Scheme, of which one is at Parel (opened on 24th March 1916) and the other at Victoria Bunder, Colaba, (opened on 1st September 1916).

An offer of Rs. 5 lakhs for establishing Maternity Homes for the Poor is before a Committee of the Municipal Corporation and when the Scheme is given effect to and the Homes come to be planted in suitable localities and when the Maternity Ward of forty-eight beds in the King Edward VII Memorial Hospital comes to be opened, Bombay will be well equipped for the task of reducing infant mortality.

The visits of the Nurses and Health Visitors are frequently the means of bringing to the Municipal Dispensaries the suffering poor, who would otherwise either not know of the existence of facilities provided or knowing would through carelessness neglect to benefit by them. These visits are therefore doing much good and are not only welcomed and appreciated but in many cases are anxiously sought after. During 1916 the Health Visitors made in all 24,550 visits to houses and chawls and reported 1,181 houses to the Health Department for their insanitary condition, 36 houses for limewashing and 32 premises for overcrowding ; brought 2,121 patients to the Dispensaries and reported 2,535 children for vaccination.

The Ladies' Committee formed during the year and composed of some of the most prominent women in the City have visited the Maternity Homes regularly ; and supervised the work of the Health Visitors by visiting the different Sections of the City in order to acquaint themselves personally with the conditions of life and surroundings of the poor with a view to their amelioration. Improvement of slum life and in the care and feeding of expectant and nursing mothers and of infants are the chief directions in which their energies are manifested.

It is impossible to over-estimate the very valuable work which is thus being done and which gives promise of further development along several useful lines.

As to the Municipal Nurses and Midwives, who are ten in number working under the ten District Registrars, they paid during the year 32,111 visits to houses, chawls and huts (against 28,276 in 1915), enquired into 3,360 cases of ordinary sickness, reported 576 cases of infectious diseases, and 1,542 deaths among the female population of the City. They also attended 1,354 confinements (against 1,425 in 1915) and ascertained 10,064 births.

It is practically impossible to compile a record which will convey any adequate idea of the nature and extent of the work done ; what has been said above may be supplemented by the following summary of the inquiries and of work carried out by the Nurses.

SUMMARY OF INQUIRIES AND OF WORK OF MUNICIPAL NURSES AND MIDWIVES ; 1909-1916.

	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.
Total number of Births (including still-born) registered ..	21,645	21,505	23,135	23,186	21,236	21,240	21,584	22,867
Percentage of still-births to the total number of Births registered	8.3	7.2	7.6	7.1	7.4	7.3	7.0	7.3
Number verified by the Nurses ..	13,677	12,762	13,578	14,417	13,639	13,950	13,571	14,263
Percentage of the number verified to the total... ..	63.1	59.3	58.7	62.1	64.2	65.6	62.8	62.3
Percentage of the confinements unattended	18.0	15.2	12.7	13.0	12.8	9.5	6.3	4.9
Percentage of the confinements attended by unskilled women	58.3	59.6	60.7	59.6	60.0	63.1	61.1	61.1
Percentage of the confinements attended by qualified Nurses (including Municipal)	11.3	12.0	13.2	13.9	14.2	13.7	15.9	14.5
Percentage of the confinements attended by Municipal Nurses	4.5	5.6	5.5	6.6	8.7	8.7	10.5	9.4
Percentage of children born in Hospitals	12.3	13.2	13.2	13.5	12.8	13.5	16.6	19.3
Percentage of children born in healthy condition	67.8	68.9	74.9	73.7	71.9	75.2	76.6	78.2
Percentage of children fed on breast... ..	64.9	59.8	69.7	66.5	68.4	62.7	70.1	69.9
Percentage of children dying within 30 days	12.3	11.8	11.5	11.8	10.7	10.6	9.7	10.3
Percentage of the cases where the mothers left home for work	31.3	27.9	34.4	29.7	30.6	33.0	33.2	32.3

It will be observed from the foregoing table that out of the total number of 22,867 births (including still-births) registered in the City during the year, 14,263 or 62.3 per cent. were verified by the Municipal Nurses and Midwives. The proportion of still-births declined but one per cent. since 1909 and shows a slight increase of .3 over the figure for 1915.

The very striking decrease in the proportion of births wholly unattended may be considered gratifying ; it is equal to 1.4 below the figure for 1915 and 13.1 since 1909.

But the percentage of confinements attended by unskilled women was 61.1 as in the previous year.

The percentage of confinements attended by qualified Nurses (including Municipal) was (14.5) lower than in 1915 (15.9) but higher than in any other previous year ; so also the percentage of confinements attended by Municipal Nurses. The proportion of births occurring in Hospitals was the highest during the year (19.3), showing an increase of 2.7 over 1915 and of 4.9 since 1909. This increase may be explained by the growing number of Lying-in Hospitals in the City—the Lady Willingdon Scheme having added two in the course of the year (March and September).

The percentage of children born in a healthy condition was the highest—78·2—since 1909, exhibiting an improvement of 1·6 over the previous year and of 10·4 since 1909 (67·8).

The proportion of children fed on breast recorded an inconsiderable decrease (·2) below 1915, but compared with other years it is the highest; the percentage of mothers who left home for work, leaving their children to the care of others, fell from 33·2 in 1915 to 32·3 in 1916; the percentage of children dying within 30 days of birth (10·3) rose by ·6 compared with 1915, but is the lowest compared with other years.

Relief to poor women during confinement in the shape of necessities and comforts such as milk, loaves, bed, blanket, charpoy and linen, &c., was dispensed in 382 cases against 452 in 1915.

376 women were admitted during the year in the Municipal Maternity Home (opened on the 21st February 1915) and of these 352 were confined.

The following two statements furnish details of these cases by months and as to the Wards from which they came and the communities to which they belonged.

STATEMENT OF CASES FROM DIFFERENT WARDS ADMITTED AND TREATED IN THE
MUNICIPAL MATERNITY HOME DURING 1916.

Wards.	Hindus.	Mussalman.	Jews.	Native Christians.	Other Castes.	Total.
A	4	...	...	2	...	6
B	17	8	9	5	5	44
C	10	12	...	3	...	25
D	11	3	...	5	...	19
E	146	18	21	63	7	255
F	1	1	...	6	...	8
G	3	1	4	7	4	19
Total ...	192	43	34	91	16	376

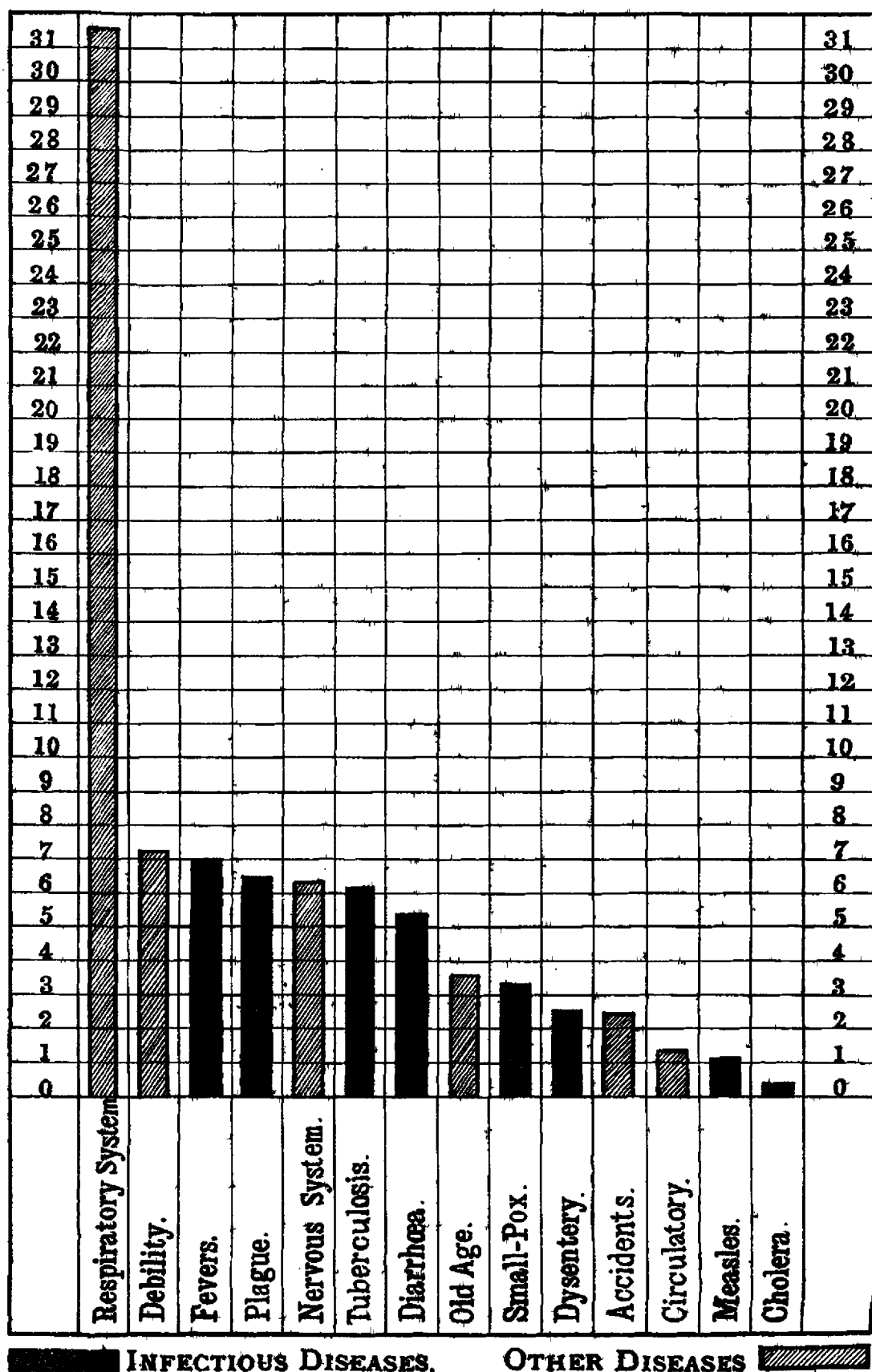
STATEMENT OF CASES ADMITTED AND OF THOSE CONFINED MONTHLY AT THE MUNICIPAL
MATERNITY HOME DURING 1916.

Month.	No. of cases admitted.	No. of cases confined.
January	33	32
February	30	30
March	31	29
April	27	25
May	39	35
June	46	43
July	16	16
August	24	22
September	32	28
October	38	38
November	27	26
December	33	28
Total	376	352

The number of women confined in the Home in 1916 (352) shows an increase of 103 over 1915 and, taken in conjunction with the number confined in the other two Homes opened during the year by the Lady Willingdon Scheme—the Parel Home (24th March to 31st December) and the Colaba Home (1st September to 31st December)—and run along similar lines, namely, 139 and 30, is certainly indicative of the growing popularity of such institutions and the need for an increase in their number.

DIAGRAM

SHOWING PERCENTAGES OF DEATHS
FROM PRINCIPAL CAUSES TO
THE TOTAL MORTALITY IN BOMBAY
IN 1916.



The following statement gives the number of deaths in Hospitals from various diseases during 1915 and 1916. The number of such deaths in the year under report was 3,543 against 2,670 in 1915 and their proportion to the total mortality was 11·5 against 11·2 in the previous year.

Mortality in Hospitals.

Cause of Death.	1915.		1916.	
	Hospital Deaths.	Total Mortality.	Hospital Deaths.	Total Mortality.
Still-born	343	1,532	379	1,687
Small-pox	106	359	246	1,021
Measles	5	70	6	344
Plague	100	599	354	1,987
Fevers	150	2,091	203	2,141
Cholera	3	16	58	141
Diarrhœa and Dysentery	276	2,195	310	2,420
Puerperal Septicæmia	17	220	22	229
Leprosy	49	59	74	87
Premature Birth	104	212	144	357
Other General Diseases	701	5,876	611	5,759
Diseases of the Nervous System	152	1,536	134	1,955
" " Circulatory System	58	339	91	405
Phthisis	93	1,114	123	1,395
Diseases of the Respiratory System	348	6,770	488	9,649
" " Digestive System	195	1,053	238	1,284
" " Urinary System	94	283	81	292
" " Generative System	45	127	50	167
Other Local Diseases	55	124	62	123
Injuries	117	606	240	762
Unspecified Causes	2	32	8	56
Total (except Still-born)	2,670	23,681	3,543	30,574
Percentage to the Total Mortality	11·2	...	11·5	...

Table of Deaths and Death-rates from some of the principal causes of deaths in 1916, compared with those in 1915 and the average of the preceding 10 years.

Mortality from Principal Causes of Death.

Cause of Death.	1915.		1916.		Average of 10 years (1906 to 1915).	
	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.
Small-pox	359	·36	1,021	1·04	511	·52
Measles	70	·07	344	·35	337	·34
Fevers (including Scarlet, Enteric, Malaria, Ague, Remittent and Relapsing).	2,091	2·13	2,141	2·18	3,257	3·32
Cholera	16	·01	141	·14	488	·49
Plague	599	·61	1,947	2·02	4,329	4·42
Phthisis	1,411	1·44	1,680	1·71	2,286	2·33
Diseases of the Nervous System	1,536	1·56	1,955	1·99	1,988	2·03
" " Respiratory System	6,770	6·91	9,649	9·85	8,832	9·02
Diarrhœa	1,566	1·59	1,624	1·65	2,245	2·23
Dysentery	629	·64	796	·81	1,092	1·11
Accidents	606	·61	762	·77	699	·71
All other Causes (except Still-born).	8,028	8·19	8,474	8·65	10,046	10·26
Total	23,681	24·17	30,574	31·21	36,110	36·89

In considering the incidence of the principal causes of death in relation to the total mortality of the City, the Diseases of the Respiratory System will, as usual, appear to have exacted the heaviest toll: 9,649 deaths, being 31·55 per cent. of the total mortality; while Fevers occasioned the next higher number of deaths; 2,141 or 7 per cent. of the total. The incidence of Plague was milder than either of the foregoing causes, as the disease contributed 1,987 deaths or 6·49 per cent. of the total. It will thus be seen that Plague is receding into comparative unimportance year by year; the mortality attributed to it in 1915 was 1,492 less than that from Fevers and 6,171 less than that from the Respiratory Diseases; and in the year under review it was 154 below that from Fevers and 7,662 below that from the Diseases of the Respiratory System. The incidence of Cholera was higher than in the previous year: it was 14 as 141 deaths were recorded during the year. Small-pox was prevalent during the first ten months of the year and as an epidemic from the week ending 29th January to that ending 20th May and thus caused 662 more deaths than in 1915. Measles recorded 344 deaths as against 70 in 1915.

Compared with the preceding decennium, the general health conditions of the City, as reflected in the mortality from all causes, exhibit an improvement of 5·68 in the death-rate.

The largest reduction appears under Plague, the death-rate from it in 1916 being 2·02 against the decennial mean of 4·42; among other causes of death, Phthisis shows an improvement of ·62, Fevers of 1·14 and Diseases of the Respiratory System of ·83.

Mortality from
Zymotic Diseases.

The death-rate from Zymotic Diseases, which had declined during 1905 to 1910 from 27·39 to 9·89 and from 7·47 in 1913 to 4·08 in 1915, rose to 6·81 during the year; it was thus slightly higher than the average of the preceding three years (6·49) but 3·72 below the decennial mean. The mortality from Plague, although 388 more than in 1915, was 63 and 2,262 below the triennial and decennial averages respectively.

The number of deaths from Fevers (1,732) was less by (42) than in the preceding year and by 573 than the triennial mean and 974 below the decennial average.

The number of deaths from Cholera (141) during the year under notice exceeded the triennial mean by 20 but was 347 below decennial average.

The number of deaths from Dysentery (796) exceeded that for the preceding year by 167 and the triennial mean by 12 but was 296 below the decennial average. Compared with triennial and decennial averages Small-pox shows an increase of 747 and 510 deaths respectively.

TABLE OF MORTALITY FROM ZYMOTIC DISEASES.

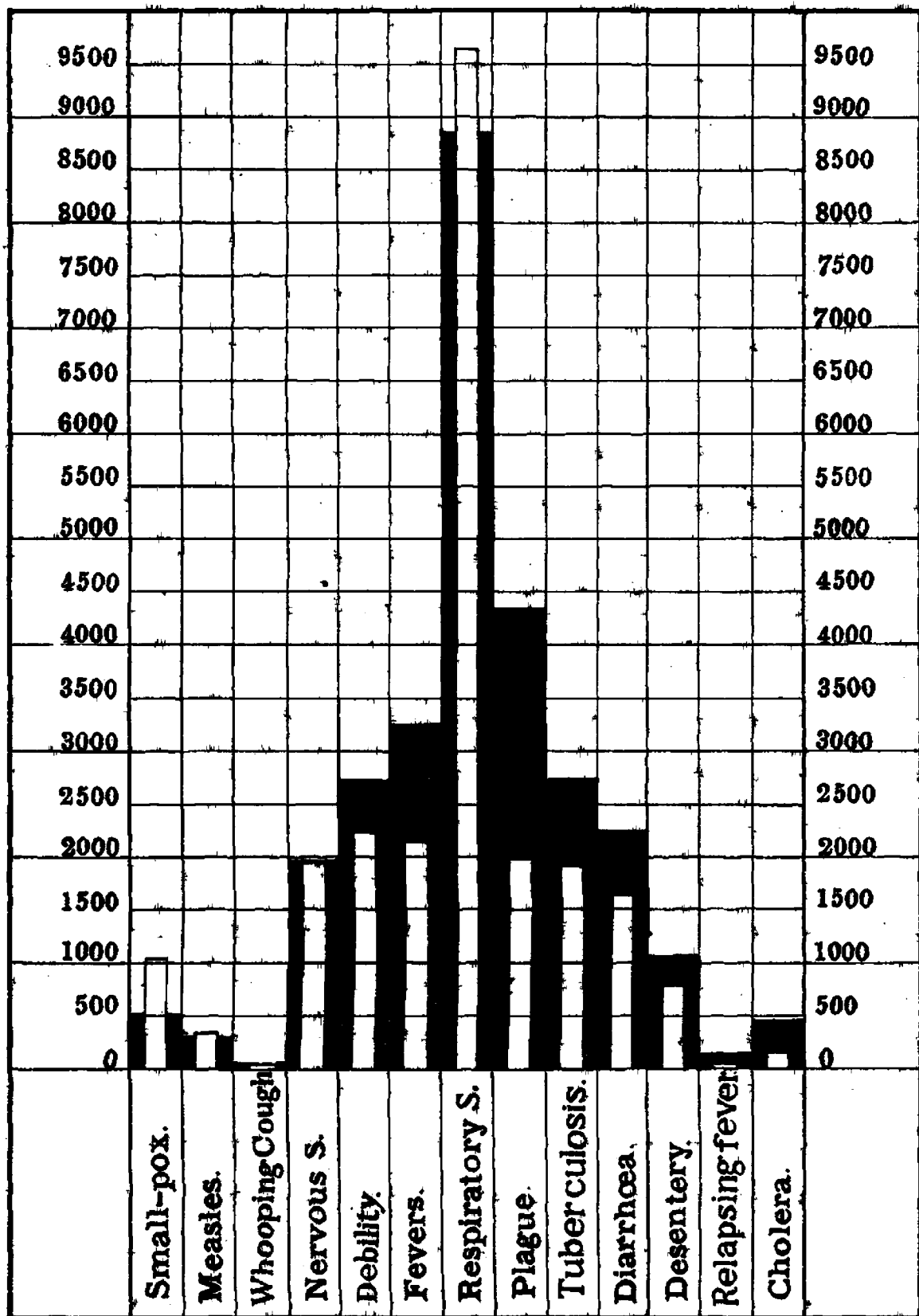
Cause of Death.					Number of Deaths registered from Zymotic Diseases.			
					1915.	1916.	Average of the last three years (1913-1915).	Average of the last ten years (1906-1915).
Small-pox	...	...	...	...	359	1,021	274	511
Measles	...	...	...	...	70	344	185	337
Plague	...	...	...	...	599	1,987	2,050	4,249
Scarlet Fever	...	...	...	...	.....	.....	...	...
Enteric Fever	...	...	...	...	109	168	136	131
Malarial Fever	...	...	...	...	208	238	227	263
Ague and Remittent Fever	...	...	...	...	1,774	1,732	2,305	2,706
Relapsing Fever	...	...	...	...	...	3	1	155
Influenza	...	...	...	...	1	6	2	2
Whooping Cough	...	...	...	...	12	7	10	13
Diphtheria	...	...	...	...	6	5	4	2
Cholera	...	...	...	...	16	141	121	488
Dysentery	...	...	...	...	629	796	784	1,092
Puerperal Septicæmia	...	...	...	...	220	229	264	358
Total	...	...	...	...	4,003	6,677	6,363	10,307
Death-rate per 1,000 of population	...	...	...	...	4·0	6·81	6·49	10·53

Mortality by Races.

The relative incidence of mortality among the different races inhabiting the City may be considered with the aid of the following table, which shows that every community recorded an augmented death-rate compared with the preceding year.

DIAGRAM

NUMBER OF DEATHS FROM THE ZYMOTIC &
OTHER DEATH CAUSES IN 1916, COMPARED
WITH THEIR AVERAGES OF THE
PRECEDING 10 YEARS.



Deaths in 1916

Average of 1906-1915.

TABLE SHOWING BY CASTE THE NUMBER OF DEATHS AND THE DEATH-RATES FROM ALL CAUSES IN 1915 AND 1916 AND THE AVERAGE OF THE PRECEDING 10 YEARS (1906—1915).

Race or Caste.								1915.		1916.		Average of last ten years (1906—1915)	
								Number of Deaths.	Rate of Mortality per 1,000 of Population.	Number of Deaths.	Rate of Mortality per 1,000 of Population.	Number of Deaths.	Rate of Mortality per 1,000 of Population.
Hindus.	Jains	...	...	...	...	...	...	890	43.49	1,271	62.12	...	...
	Brahmins	...	...	...	...	...	...	872	18.11	1,207	22.49	...	...
	Lingaits	...	...	...	...	...	...	111	94.14	172	145.88	...	...
	Bhatias	...	...	...	...	...	...	196	25.19	212	27.24	...	...
	Hindus of other Castes	...	...	...	...	...	...	10,670	19.49	14,586	26.65	...	...
	Hindus, Low Caste	...	...	...	...	...	...	2,750	50.70	3,533	65.14	...	...
Hindus, all Castes								15,589	22.77	20,981	30.65	24,637	35.43
Mussalmans, (including Negro-Africans)								5,540	30.89	6,621	36.91	8,222	47.24
Parsees								959	18.82	979	19.22	1,248	25.02
Jews								147	22.28	185	28.04	189	31.59
Native Christians								1,143	27.69	1,242	30.09	1,411	39.47
Eurasians								102	24.35	122	29.13	117	28.89
Europeans								162	13.62	403	33.88	225	17.15
Buddhists								8	13.84	21	36.33	10	28.20
Other and unknown castes								81	227.94	20	147.05	20	277.77
Total								28,681	21.77	30,574	31.21	36,679	36.86

The general death-rate of the City was 31.21. The communities that returned a higher death-rate were Europeans (33.88), Mussalmans (36.91), and Buddhists (36.33) who however are numerically (576) an inconsiderable portion of the population; Hindus as a whole registering the death-rate of 30.65. Among Hindus Lingaits, who number only 1,779 by the Census of 1911, returned the highest death-rate (145.88); next Hindus, low caste, (65.14); then Jains (62.12). Mahomedans recorded the highest communal death-rate (36.91) as usual; it was 30.89 in 1915. This is explained by the fact that they suffered more than any other community from Phthisis (2.94) and Respiratory Diseases (11.93); also from Diarrhoea (2.29) if Buddhists be excluded. This heavy mortality from the first two causes is to be accounted for by the fact that Mahomedan localities in the City are among the most congested areas and by their social customs which in effect deny to their females the benefits of open air. Europeans returned the death-rate of (33.88) against 13.62 in 1915; their largest contribution to mortality was under Accidents (87 deaths, ratio 7.31) and Fevers (73 deaths, ratio 6.13). Of all the communities they paid the heaviest toll to the following diseases:—Enteric Fever (3.86; 46 deaths); Dysentery (3.36, 40 deaths); Cholera (9.2, 11 deaths) and Malaria (1.59, 19 deaths); where-as Ague and Remittent Fever (.67); Diarrhoea (.58), Phthisis (.50) and Respiratory Diseases (2.52, 30 deaths) were least fatal to them.

Native Christians recorded the next lower rate of mortality (30.09); the most fatal causes of death among them being Diseases of the Respiratory System (6.20, 256 deaths), Small-pox and Fevers each recording 92 deaths and a death-rate of 2.22; their great susceptibility to Small-pox is due to their not being vaccinated in infancy and they are generally the worst sufferers in every out-break of the disease.

Then follow Eurasians with the death-rate of 29.13. They appear to have suffered most from Respiratory Diseases (5.73), from Fevers (2.38), from Phthisis (2.14) and from Small-pox (1.67). Jews stand next with the death-rate of (28.04), the most fatal causes of death among them being Diseases of the Respiratory System (6.21) and Fevers (2.12).

Then come Parsees with the lowest communal death-rate (19.22); they suffered most from Respiratory Diseases (3.23), from Fevers (1.55) and from Diarrhoea (1.19).

Hindus (of all castes) succumbed more than any other race to Plague (2.35); they suffered heavily also from the Diseases of the Respiratory System (10.19), and Fevers (2.23). They suffered less than any other community from Enteric (.09). and Malaria (.20).

Compared with the mean of the preceding decennium (23.20), (i) Parsees alone will be found to have registered a lower death-rate (19.22); (ii) the improvement in the total death-rate of all communities is equivalent to a reduction of 5.65.

The subjoined statement shows the increases in total mortality and in the mortality under principal causes registered in certain months of 1916 compared with 1915.

Small-pox caused the highest number of deaths in March (340) and April (198); so also Measles (87 and 72) and Plague (474 and 657) and Respiratory Diseases (1,158 and 1,081); in addition to these, Diarrhoeal Diseases occasioned the heaviest monthly mortality in March (247), Ague and Remittent Fever in March (187) and April (187), and Diseases of the Nervous System (183) in April. The attenuated increases of succeeding months need no special comment.

MONTHS.									Number of Deaths in 1915.	Number of Deaths in 1916.
January	...	...	...	...	...	...	...	...	1,811	2,432
February	...	...	...	...	...	...	...	...	1,652	2,674
March	...	...	...	...	...	...	...	...	2,001	3,631
April	...	...	...	...	...	...	...	...	2,109	3,526
May	...	...	...	...	...	...	...	...	2,082	2,822
June	...	...	...	...	...	...	...	...	1,741	2,110
July	...	...	...	...	...	...	...	...	1,782	2,325
August	...	...	...	...	...	...	...	...	2,056	2,311
September	...	...	...	...	...	...	...	...	2,099	2,132
October	...	...	...	...	...	...	...	...	2,108	2,143
November	...	...	...	...	...	...	...	...	2,035	2,125
December	...	...	...	...	...	...	...	...	2,205	2,343
TOTAL									23,681	30,574

TABLE SHOWING THE INCREASES IN TOTAL MORTALITY AND IN THE MORTALITY UNDER PRINCIPAL CAUSES REGISTERED IN CERTAIN MONTHS OF 1916 COMPARED WITH 1915.

MONTH.	Total Increase.	Increases under							
		Small-pox.	Measles.	Plague.	Ague and Re-mittent Fever.	Diarrhoeal Dis-eases.	Debility.	Nervous Dis-eases.	Respiratory Diseases.
January	621	67	36	37	90	44	47	60	263
February	1,022	164	36	121	22	50	53	56	484
March	1,630	289	76	397	48	49	30	50	584
April	1,417	138	60	498	11	46	6	67	490
May	740	37	48	215	..	65	13	22	277
June	369	28	16	56	10	29	..	30	116
July	543	4	3	28	..	45	28	25	207
August	255	..	2	3	..	..	17	40	174
December	138	..	3	5	21	..	4	14	78

All the Sections of the City recorded higher death-rates compared with 1915. The following Sections recorded rates lower than the general death-rate :—

Mortality by Sections.

Middle and Lower Colaba (23·47) in A Ward, Mandvi (30·75) and Dongri (21·67) in B ; Market (24·95), Dhobi Talao (27·91) and Fanaswadi (27·51) in C Ward ; all the Sections of D Ward ; First Nagpada (27·75) in E, and Sewri (26·69) in F Ward.

It is necessary to mention here that the high death-rates of certain Sections are only apparently so : Upper Colaba (86·06) and Fort Southern (85·78) registered by far the highest sectional death-rates. Of these the former reveals a large decrease in population as enumerated in 1911 (from 3,775 in 1906 to 1,557) owing chiefly to the exclusion of the military included in previous enumerations (1901 and 1906). It contains also the Colaba Station (Military) Hospital for the reception of the sick returning from the seats of War. Fort Southern is mostly a business locality and not residential. Esplanade (38·90), Tarwari (46·18) and Byculla (37·86) : these Sections contain Hospitals and should exhibit a much lower rate, but for the fact that for want of residential addresses of several patients dying in the Institutions, the deaths have to be referred to the Sections containing the Hospitals instead of to those from whence they came. Fort Southern contains the Lady Hardinge War Hospital ; Esplanade contains the St. George's, Cama and Allbless and Goculdas Tejpal Hospitals and the Gerard Freeman-Thomas, Victoria and the Marine Lines War Hospitals and the Parsee Lying-in-Hospital. Sir Jamsetjee Jeejeebhoy, Bai Motlabai and Sir D. M. Petit and the Maratha Hospitals are in Tarwadi ; and St. Joseph's Foundling Home and the Arthur Road Infectious Diseases Hospital and Adams Wylie Memorial Hospital are in Byculla. The lowest death-rate was returned for Dongri (21·61). This diminution may be attributed in a measure to the improvements which have been recently carried out by the City Improvement Trust in that area.

Compared with the averages of the preceding quinquennium—(1911-1915), the following Sections exhibit a higher death-rate :—Upper Colaba, Fort Southern and Esplanade in A Ward ; Market in C Ward ; all the Sections of D Ward excepting Chowpati ; Parel and Sion in F Ward and Worli in G Ward.

Table 3 appended to this Report explains the relative incidence of diseases in the different Sections of the City.

It will be observed that Cholera was worst in Upper Colaba (2·56), Esplanade (·56), Umarchadi (·50) and Chowapati (·43) ; Small-pox in Kamathipura (2·53), Tardeo (2·19), Parel (1·84), Byculla (1·71), Second Nagpada (1·65), First Nagpada (1·55), Fort North (1·49), Worli (1·43), Khetwadi (1·37), Mahim (1·31), Dhobi Talao (1·24) and Tarwadi (1·19). Measles was more prevalent in Market (·92), Chukla (·78), Mandvi (·66) and Fanaswadi (·65). The Sections which suffered most from Plague were Middle and Lower Colaba (4·37), Mandvi (3·25), Sion (3·12), Parel (2·88), Worli (2·81), Fort North (2·55), Bhuleshwar (2·52), Mahaluxmi (2·47), Kamathipura (2·44) and Mazagon (2·32).

The incidence of Malaria was more marked in Upper Colaba (3·21), Fort South (2·88) and Esplanade (1·63). Diarrhoeal Diseases levied the heaviest toll in Fort South (13·86), Tarwadi (6·57), Upper Colaba (6·42) and Esplanade (5·23).

Tubercle of Lungs and Tubercular Diseases registered the highest death-rate in Fort South (11·26), Second Nagpada (4·74), Kamathipura (4·73) and Esplanade (3·99).

The following Sections suffered most from the Diseases of the Respiratory System :— Fort South (15·88), Tarwadi (13·86), Byculla (13·82), Chukla (13·53), 2nd Nagpada (13·17), Kamathipura (13·03) and Kumbharwada (12·92).

TABLE SHOWING THE DEATH-RATE FROM ALL CAUSES IN 1915 AND 1916 AND THE MEAN OF THE PRECEDING FIVE YEARS (1911-1915).

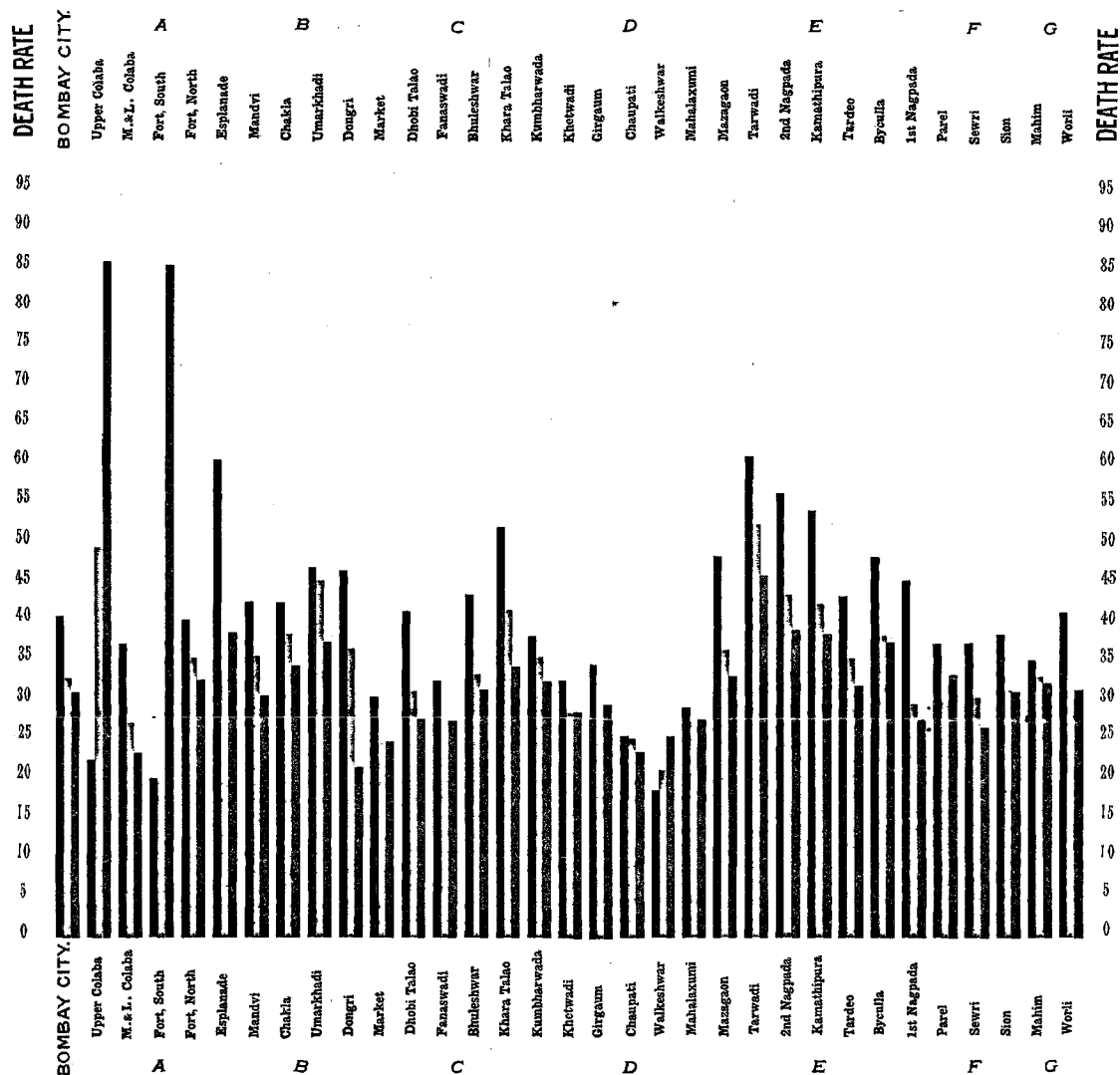
Ward.	Sections.	1915.	1916.	Mean death-rate (1911-1915).
A	Upper Colaba	39·17	86·06	49·45
	Middle and Lower Colaba	22·35	23·47	27·13
	Fort, Southern	40·72	85·78	19·64
	Fort, Northern	24·09	32·91	35·39
	Esplanade	24·60	38·90	34·00
B	Mandvi	23·43	30·75	35·81
	Chukla	27·36	34·66	38·79
	Umarchadi	32·42	37·81	45·49
	Dongri	18·24	21·61	36·73
	Market	17·69	24·95	24·59
C	Dhobi Talao	24·71	27·91	31·22
	Fanaswadi	22·73	27·51	27·62
	Bhuleshwar	24·52	31·43	33·63
	Khara Talao	30·46	34·59	41·86
	Kumbharwada	25·05	32·70	35·91
D	Khetwadi	24·98	28·68	28·39
	Girgaum	24·07	29·98	29·79
	Chowpati	21·40	23·86	25·13
	Walkeshwar	21·52	25·65	21·24
	Mahalakshmi	22·27	27·94	27·34
E	Mazagon	25·43	33·38	36·97
	Tarwadi	37·82	45·18	52·73
	Second Nagpada	33·08	39·17	43·91
	Kamathipura	30·82	38·72	42·52
	Tardeo	25·97	32·02	35·95
F	Byculla	26·95	37·86	38·63
	First Nagpada	23·69	27·75	29·93
	Parel	20·23	33·44	30·23
	Sewri	18·98	26·69	30·78
	Sion	24·05	31·29	31·29
G	Mahim	26·59	32·56	33·25
	Worli	22·69	31·69	29·38
	Harbour, Docks, Railways and Homeless	2·49	3·42	2·60
Total ...		24·17	31·21	32·92

Mortality by
Place of Birth

Of the total number of 30,574 deaths in the entire population during the year, 41·41 per cent. or 12,263 deaths occurred among persons born in Bombay against 46·38 in 1915, 53·80 per cent. or 16,450 among those born outside it against 48·64 in 1915 ; and 4·77 or 1,461 deaths were of persons whose place of birth could not be ascertained ; the corresponding ratio in 1915 was 4·97.

DIAGRAM

DEATH-RATE (PER 1,000 OF POPULATION) IN BOMBAY CITY AND ITS SECTIONS 1901 — 1916



1901 — 1905

1906 — 1910

1911 — 1915

1916

Plague appeared in the City in the latter half of 1896; the year under review is thus the 21st year of its continuous presence with us. During the period, the mortality from the disease rose to the appalling figure of 20,788 in 1903, and gradually dropped during succeeding years to 1,717 in 1912; during the next two years it rose to 2,609, and 2,941 and fell to 599 in 1915. The year under review witnessed a further rise: 1,987 deaths, being 1,388 more than in 1915, giving the ratio of 2·02 against 61 in 1915.

The number of Plague attacks during the year was 2,321 against 694 in 1915 and 3,348 in 1914. The case-mortality works out to (85·60) per cent. against (86·31) in 1915; but it is the lowest percentage since 1902 (84·15); the other years which were marked by a lower percentage of case-mortality being 1897 (82·64), 1898 (82·17), 1899 (81·20) and 1900 (74·16). This may be considered as one of the redeeming features of the Plague mortality of the year under notice.

TABLE SHOWING THE NUMBER OF ATTACKS AND DEATHS FROM PLAGUE SINCE 1896 AND THE TOTAL MORTALITY, EXCLUDING STILL-BORN, SINCE 1891.

Years.	Number of Plague Attacks.	Number of Plague Deaths.	Death-rate from Plague per 1,000 of Population.	Percentage of Deaths to Attacks.	Number of Deaths from all Causes (exclusive of Still-born).	Total Death-rate per 1,000 of Population.
1891	...	...	...	...	23,847	29·01
1892	...	...	...	...	26,518	32·26
1893	...	...	...	...	23,142	28·16
1894	...	...	...	...	27,330	33·25
1895	...	...	...	...	25,081	30·52
1896	2,544	1,936	2·36	76·10	33,451	40·71
1897	13,314	11,003	13·39	82·64	47,896	58·28
1898	22,130	18,185	22·12	82·17	51,961	63·23
1899	19,451	15,796	19·22	81·20	56,434	68·07
1900	17,913	13,285	16·16	74·16	79,350	96·55
1901	21,006	18,736	24·14	89·19	59,495	76·66
1902	16,423	13,820	17·80	84·15	48,414	62·38
1903	23,344	20,788	26·78	89·05	50,513	65·09
1904	15,488	13,538	17·44	87·40	42,676	54·99
1905	16,308	14,198	18·29	87·06	47,762	61·54
1906	12,323	10,823	11·06	87·82	52,874	54·07
1907	7,353	6,389	6·53	83·88	38,687	39·56
1908	6,134	5,361	5·48	87·39	38,271	39·13
1909	5,864	5,197	5·31	88·62	34,878	35·66
1910	4,130	3,656	3·73	88·52	34,933	35·72
1911	4,503	4,006	4·09	88·96	34,961	35·69
1912	1,936	1,717	1·75	88·68	38,954	39·77
1913	3,023	2,609	2·66	86·30	31,806	32·47
1914	3,348	2,941	3·00	87·84	31,853	32·52
1915	694	599	·61	86·31	23,681	24·17
1916	2,321	1,987	2·02	85·60	30,574	31·21

The monthly variations of Plague mortality are indicated in the following statement. Compared with 1915, every month registered a higher mortality from the disease, the total increase for 1916 being 1,388. Plague was epidemic from week ending 26th February to that ending 3rd June, and caused the highest number of deaths in April (657), the week ending 15th of the month registering the maximum of weekly deaths, namely, 209. It declined in subsequent months and the minimum number of deaths from the disease (30) was reached in November.

Plague by Months.

The lowest number of seizures registered in a month was 38 in December. The monthly minimum in 1915 was 8 attacks and 7 deaths.

The highest number of seizures recorded on a single day was on 7th, 9th, and the 14th April, namely, 38 against 14 on the 20th of April 1915; and the highest number of deaths from the disease was 35 recorded on the 7th and 12th of April against 12 on 20th April 1915.

STATEMENT SHOWING PLAGUE DEATHS BY MONTHS DURING 1916.

MONTHS.	Plague Deaths in		Plague Attacks in	
	1915.	1916.	1915.	1916.
January	7	44	8	60
February	17	138	22	159
March	77	474	80	548
April	159	657	193	761
May	131	346	148	388
June	32	88	38	108
July	41	69	48	79
August	31	34	37	42
September	28	34	34	45
October	23	39	25	51
November	24	30	30	42
December	29	34	31	38
Total ...	599	1,987	694	2,321

Of the 1,987 deaths from Plague during the year under report, 1,615 occurred among Hindus of all classes, against 480 in 1915; while 247 against 88 in the preceding year were registered among Mussalmans including Negro-Africans. Native Christians contributed 70 and Parsees 43 against 21 and 7 respectively in 1915. The small balance of 12 sums up the deaths among Europeans (6), Jews (5) and Eurasians (1); in the preceding year there was no death from Plague among Europeans, but Eurasians contributed 2 and Jews 1. Buddhists registered no death from the disease as in 1915.

Plague by Races.

As in previous years, Plague was most fatal to Hindus, who returned the death-rate of 2·35; next Native Christians, with the ratio of 1·69; then Mussalmans (1·37), Parsees (·84), Jews (·75) and Europeans (·50). The lowest death-rate was returned by Eurasians (·23).

The sex distribution of Plague mortality in the year was 1,437 males and 550 females; the ratio per 1,000 of sex population being 2·24 amongst males and 1·62 among females.

Plague by Sex and Age.

The proportion of male deaths to female was 2·6 to 1 in the entire population; among Hindus of all castes 2·5 to 1; 3·4 to 1 among Mussalmans (including Negro-Africans), 1 to 1 among Parsees; but it was 5 to 1 among Europeans, 4 to 1 among Jews and 2·8 to 1 among Native Christians.

Examining the Plague mortality under the different age-groups, it will be observed that the disease was most fatal to persons between 10 to 30 years of age, as 1,527 or more than 76 per cent. of the deaths occurred among them; 1,103 of these being among males and 424 among females.

Among infants or children under 1 year of age, there were only two deaths; in the age-group of 1 to 10 years there were 116 deaths among males and 98 among females; while in the population aged 35 to 50 and more, 316 males and 111 females died from the disease.

Plague by Sections.

The general death-rate from Plague for the whole City was 2·02 in the year under review, being 1·41 higher than that of 1915 (·61). Among Sections with a higher incidence of disease may be mentioned in A Ward, Middle and Lower Colaba (4·37) and Fort North (2·55); in B Ward, Mandvi (3·25); in C Ward, Bhuleshwar (2·52) and Market (2·02); in D Ward, Mahalakshmi (2·47); in E Ward Kamathipura (2·44), Mazagon (2·32), Byculla (2·29), and Tarwadi (2·14); in F Ward, Sion (3·12) and Parel (2·88); in G Ward, Worli (2·81).

All the other Sections registered a lower rate. The lowest rate (·93) was returned by First Nagpada, whereas the highest (4·37) was recorded by Middle and Lower Colaba in A Ward, and the next highest (3·25) in Mandvi in B Ward.

Compared with the mean rate of the preceding quinquennium (1911-1915), the death-rate from Plague was ·40 lower in the year under report.

The death-rates of the following Sections are slightly higher than the quinquennial mean :—

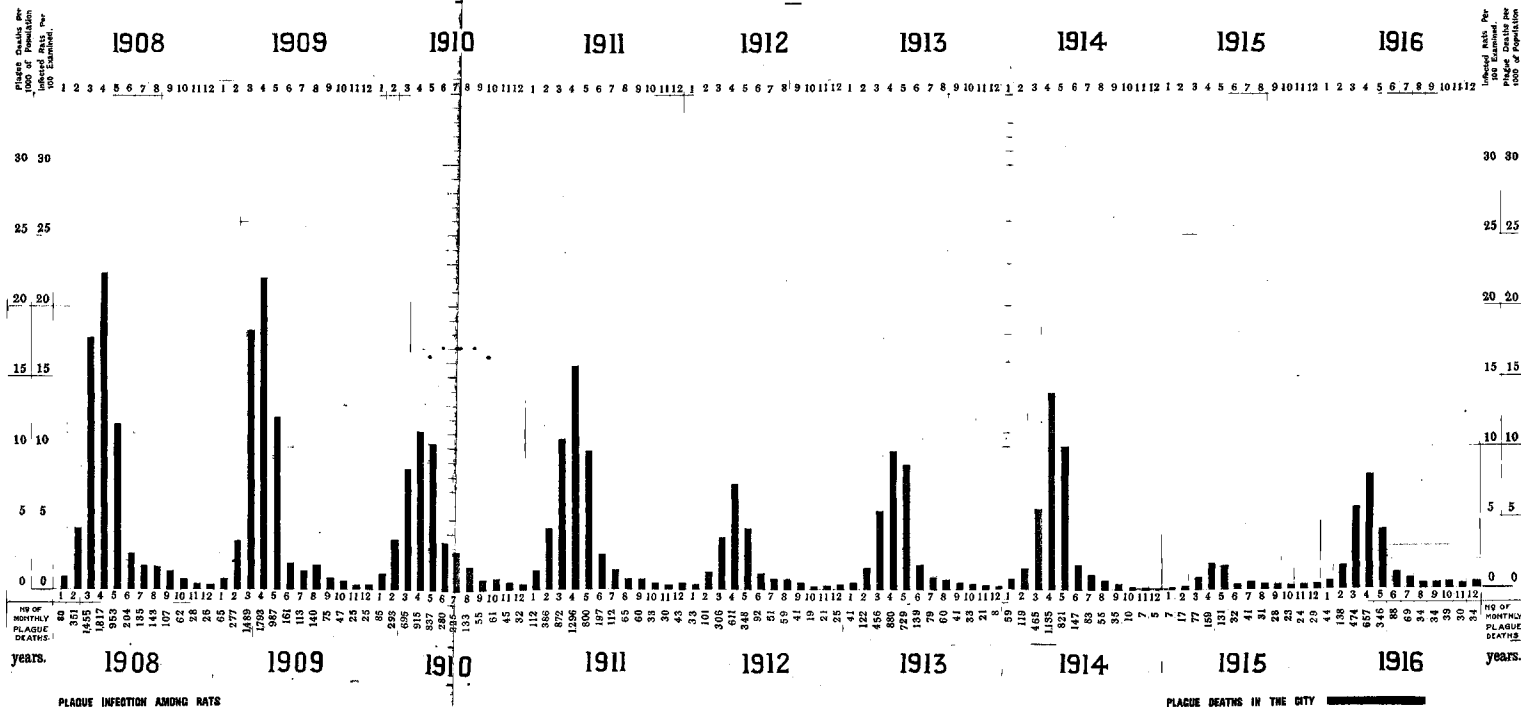
Mandvi (B), Bhuleshwar (C), Walkeshwar (D), Kamathipura (E), and Sion (F). All the Sections of A Ward registered a decrease.

TABLE SHOWING THE DEATH-RATE FROM PLAGUE IN SEVERAL SECTIONS IN 1915 AND 1916 WITH THEIR QUINQUENNIAL AVERAGES (1911-1915).

Ward.	Sections.	1915.	1916.	Quinquennial average (1911-1915).
A	Upper Colaba	...	1·92	2·56
	Middle and Lower Colaba	4·11	4·37	4·92
	Fort, Southern	·57	1·73	1·73
	Fort, Northern	·74	2·55	2·79
	Esplanade	·45	1·23	1·06
B	Mandvi	1·68	3·25	3·13
	Chukla	·78	1·31	2·31
	Umarkhadi	·94	1·81	3·02
	Dongri	·62	1·17	2·75
C	Market	·72	2·02	2·22
	Dhobi Talao	·88	1·05	3·61
	Fanaswadi	·54	1·71	2·55
	Bhuleshwar	·76	2·52	2·30
	Khara Talao	·43	1·34	2·74
	Kumbharwada	·54	1·76	2·85
D	Khetwadi	·34	1·62	1·22
	Girgaum	·25	1·49	1·42
	Chowpati	·26	·87	1·31
	Walkeshwar	·18	2·16	1·03
	Mahalakshmi	1·36	2·47	2·85
E	Mazagon	·43	2·32	3·55
	Tarwadi	·28	2·14	2·35
	Second Nagpada	·13	1·19	1·33
	Kamathipura	·43	2·44	1·65
	Tardeo	·57	1·22	1·58
	Byculla	·21	2·29	2·46
	First Nagpada	·15	·93	1·24
F	Parel	·15	2·88	2·81
	Sewri	·31	1·57	3·19
	Sion	·16	3·12	2·21
G	Mahim	1·27	1·50	3·54
	Worli	·64	2·81	3·04
	Harbour, Docks, Railways and Homeless	·02	·13	·04
	Total	·61	2·02	2·42

DIAGRAM

RELATION OF RAT PLAGUE TO HUMAN PLAGUE 1908 TO 1916 BY MONTHS



The usual preventive and precautionary measures against Plague were continued during the year under report : Inoculation, Rat Destruction, Evacuation and Disinfection. Plague Measures.

(i) The number of inoculations performed during 1916 was 4,931 against 3,910 in 1915 and 4,622 in 1914. Of these 772 inoculations were performed by the District Registrars against 361 in 1915.

STATEMENT SHOWING THE NUMBER OF PERSONS INOCULATED DURING THE YEAR 1916.

District No.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
District No. 1	...	...	17	5	4	...	...	...	...	...	...	...	26
" " 2	...	...	3	2	29	...	...	...	1	...	8	9	51
" " 3	15	...	8	...	...	...	...	...	...	3	...	...	28
" " 4	...	...	...	...	...	...	...	...	...	...	...	...	...
" " 5	...	...	...	...	...	...	...	...	...	...	...	...	...
" " 6	...	...	18	...	...	...	...	26	...	...	1	2	47
" " 7	...	...	244	30	...	2	...	...	...	3	...	...	279
" " 8	...	...	...	...	1	...	...	...	...	1	1	...	3
" " 9	...	...	294	46	...	...	...	...	...	...	...	...	340
" " 10	...	...	...	...	...	...	...	...	...	...	...	...	...
Bombay Bacteriological Laboratory.	5	55	267	198	56	12	2	17	28	55	70	36	801
H. M.'s Common Prison	326	255	286	188	262	263	323	312	265	294	271	313	3,568
Total	346	310	1,137	469	351	277	325	356	294	356	351	360	4,931

(ii) *Rat Destruction.*—Rat raids gave far more satisfactory results than in 1915 ; as 9,43,346 rats were collected and destroyed during 1916, compared with 7,93,705 in 1915 and 6,44,241 in 1914, being an increase of 1,49,641 over 1915 and 2,99,105 over 1914.

From the following statement it will be observed that of the 9,43,346 rats collected and sent to Parel Laboratory 4,41,871 were examined and 11,227 were found infected : the percentage of infected rats to the number examined being 2.54 as compared with 1.57 in 1915 and 5.9 in 1914 :—

STATEMENT SHOWING THE TOTAL NUMBER OF RATS SENT TO THE PAREL LABORATORY, THE NUMBER EXAMINED AND THE NUMBER FOUND INFECTED IN 1916.

Months.	Total number of rats sent to the Parel Laboratory.	Number of rats examined.	Number of rats found infected.	Percentage of rats infected to rats examined.
January	87,744	37,447	687	1.83
February	76,499	38,336	1,617	4.21
March	76,315	40,480	2,663	6.57
April	72,365	33,162	2,423	7.3
May	65,756	34,037	1,682	4.94
June	56,368	25,727	533	2.07
July	70,912	31,231	366	1.17
August	73,701	32,781	226	0.68
September	78,045	30,546	160	0.52
October	82,531	37,175	192	0.51
November	98,025	46,909	240	0.51
December	105,085	54,040	438	0.81
Total	9,43,346	4,41,871	11,227	2.54

The percentage of infected rats rose from 1.83 in January to 7.3 in April, and then declined gradually to .51 in October and November ; it then rose to .81 in December.

In the Diagram, the relation between Rat Plague and Human Plague is illustrated ; the rise in human Plague will be seen to have followed on the rise of infection among rats ; the fall in the percentage of infected rats will be found to have been followed by a corresponding fall in the incidence of Plague :— Rat Plague and Human Plague.

(iii) *Evacuation.*—To induce evacuation of congested and infected areas, Municipal Health Camps, as in previous years, were put up at Agripada, Nowroji Hill, Gilder Tank, Mahim Gardens and near Mahim Railway Station, Colaba (1st Koli Lane), Chinchpogli, and Arthur Road.

As in previous years, every place where an infected rat was found or a Plague case or any case of infectious diseases occurred, was pesterined and all the gullies and passages between houses were similarly treated.

Disinfectants, their quantities and cost.

◀

Name of Disinfectant.		(a)		(b)				(c)	
		Quantities of Disin- fectants used.	Cost.	Quantities of Disinfectants used				Total Cost of Disinfectants used	
				(i)		(ii)		For disinfecting infected dwelling houses and rooms.	For disinfecting other places such as house- gullies, drains, privies, &c.
				For disin- fecting in- fected dwelling houses and rooms.	Cost.	For disinfect- ing other places such as house- gullies, drains, privies, &c.	Cost.		
Pesterine	Drums.	10,698½	Rs. a. p. 7,431 4 8	2,635½	Rs. a. p. 1,812 5 8	8,058	Rs. a. p. 5,618 15 0		
Zondo Fluid	Gallons.	1,808	6,185 4 3	629	2,203 4 3	1,279	3,962 0 0		
Perchloride of Mercury solution ..	Jars.	240½	1,266 1 7	240¾	1,266 1 7	....	....		
Sulphur	lbs.	1,201½	100 10 5	187	13 13 9	1,014½	86 12 8		
Izal Powder	Bags.	814½	6,413 13 0	..	....	814½	6,413 13 0		
Carbolic Acid Powder	Boxes.	41	421 8 0	..	....	41	421 8 0		
Dettamer	lbs.	1,337	109 1 5	..	....	1,337	109 1 5		
			21,927 11 4	....	5,295 9 3	....	16,632 2 1	5,295 9 3	16,632 2 1

Small-pox was prevalent throughout the year and in an epidemic form from the week ending 29th January to that ending 20th May ; 2,123 Small-pox attacks were registered during the year against 775 in 1915 ; and 1,021 deaths against 359 in 1915, and 449 the average of the preceding five years.

Small-pox.

The following table shows the number of Small-pox attacks and deaths during each month of the year. The disease was steadily on the increase during the first three months registering the highest number of seizures (709) as well as mortality in March (340) ; then it declined during the subsequent months until it disappeared at the end of October. No attack or death from the disease was registered upto the first thirteen days of December, but 8 attacks were registered during the last 18 days and of these one proved fatal :—

Small-pox by months.

NUMBER OF SMALL-POX ATTACKS AND DEATHS BY MONTHS DURING 1915 AND 1916.

MONTHS.	1915.		1916.	
	Attacks.	Deaths.	Attacks.	Deaths.
January	45	17	199	84
February	80	16	380	180
March	122	51	709	340
April	147	60	411	198
May	124	70	249	107
June	71	37	100	65
July	39	20	30	24
August	29	18	17	11
September	22	16	13	5
October	14	7	7	6
November	19	10	.....	.....
December	63	37	8	1
Total ...	775	359	2,123	1,021

The year opened with 3 indigenous cases on the New Year's day and of the 199 cases in January 8 were imported; 1 each from the Harbour, Ratnagiri District, Malwan, Rajapur, Udvarda, Jaigad, Neron and Vile-Parle.

February registered 380 cases including 7 imported; 1 each from the Harbour, Calcutta, Ratnagiri, Karachi, Nasik, Sangmeshwar and Ahmednagar.

March recorded 709 attacks (including 23 imported cases, 11 from the Harbour, 2 among recent arrivals from Mecca, 4 among those from Bandra and 1 each among those from Savant-wadi, Kurla, Ratnagiri, Nasik, Kolhapur and Rajapur).

In April 11 cases were imported; 3 from the Harbour, 3 from Poona and one each from Belgaum, Chiplun, Borivli, Ahmedabad and Colaba District.

From May a rapid decline set in and the month registered 249 attacks ; of these 12 cases were imported, 5 from the Harbour and 1 each from Nigdein, Deolali, Junnar, Dapoli Camp, Ghatkoper, Palanpur and Ratnagiri District.

In June there were 100 attacks including 3 imported; 1 each from Kurla, Satara and the Harbour.

July and August each registered 30 and 17 attacks respectively with two cases imported in July, 1 each from the Harbour and Kurla.

In September there were 13 attacks including one imported from Nala Sopara.

October recorded 7 attacks without any imported case.

December registered 8 attacks including 1 imported from the Harbour.

Thus out of 2,123 cases during the year 68 were imported; 23 from the Harbour and Shipping, 4 from Ratnagiri District, 4 from Bandra, 3 from Kurla, 3 from Poona, 2 from Nasik and 2 from Mecca and 1 each from several other places.

Of 1,021 deaths from the disease, 25 were among new arrivals not belonging to the City.

When Small-pox gave signs of increase in the early part of the year, the necessity of vaccination and re-vaccination was notified to the public as usual through the Press and by distribution of leaflets and by visits paid to houses and chawls by the Registration and Vaccination Staff.

The result was an enormous demand from Schools and Colleges, Chawls and Hotels, Firms and other business houses, the Docks, the Port Trust and other Public Offices. There were also numerous calls for vaccination at private houses. This demand was satisfactorily met. In addition to the sixteen permanent Vaccination Stations in the City, temporary Stations were opened at several suitable places. Arrangements were made for vaccination also at the Ladies' Gymkhana, Malabar Hill, and at the Head Municipal Office. All possible facilities were thus placed at the service of the City and they were well availed of.

Vaccination of
Pilgrims to the Haj.

A special Vaccination Staff was engaged, as usual, by this Department for the vaccination of Mahomedan Pilgrims who embarked at Bombay for the Haj during the Haj season from 1st September to the end of October. The total number who so embarked during 1916 was 2,632 against 2,433 in 1915; and of these 2,449 were vaccinated in Bombay, prior to embarkation; 2 males and 4 females were primarily vaccinated and 2,165 males and 278 females were re-vaccinated. The operations were carried out under the supervision of the Superintendent of Vaccination. No Lady Vaccinator was appointed during the Haj Season as the work of vaccinating female pilgrims was done by the Nurse attached to No. 9 District in addition to her own duties. The percentage of pilgrims vaccinated at Bombay prior to embarkation was 93·05 against 94·99 in 1915 and was the second highest since the introduction of the measure.

Vaccination among Pilgrims to the Haj :—

Year.	Number of Pilgrims to the Haj embarked.	Number of Pilgrims Vaccinated.	Percentage of Vaccination.
1910	18,023	8,278	45·8
1911	22,856	15,140	66·2
1912	15,464	10,587	68·4
1913	15,319	11,198	73·1
1914	11,700	9,102	77·7
1915	2,433	2,311	94·9
1916	2,632	2,449	93·05

The highest number of deaths from Small-pox during the year under review was registered in Byculla and Worli, each recording 129 deaths and giving the death rates of 1·71 and 1·43 respectively per 1,000 of population, in those Sections. Next, in order of incidence, follow Kamathipura (93) 2·53, Parel (84) 1·84, Tardeo (61) 2·19, Dhobi Talao (48) 1·24, Khetwadi (44) 1·37, Mahim (40) 1·31, Fort North (38) 1·49, Second Nagpada (36) 1·65, Tarwadi (34) 1·19, Girgaum (31) 1·00, Sion (30) ·97 and Mazagon (28) ·93. Upper Colaba registered only one death from the disease.

Small-pox by Sections.

Of the total number of deaths from Small-pox, 575 were males and 446 females.

Small-pox by Sex and Age.

259 deaths occurred amongst infants under 1 year, being 25·3 per cent. of the total Small-pox mortality, against 64 deaths or 17·8 per cent. in 1915; of these, 117 were males and 142 females. In the age groups of 1 to 5 years and 5 to 15 years, 189 (88 males and 101 females) and 141 (81 males and 60 females) deaths were recorded being respectively 18·5 and 13·8 per cent. of the total. 35·4 per cent. or 362 deaths occurred among population between 15 to 30 years (251 males and 111 females).

Of the 259 infants who died of Small-pox during the year, 11 were said to have been vaccinated (10 during the incubation period and 1 out of Bombay) and 216 not vaccinated at all; in 32 cases the vaccinal condition could not be ascertained.

Vaccinal condition of infants who died of Small-pox.

The following table gives the information required by Government in the General Department, under their Resolution No. 3231 of the 21st May 1912, as to the vaccinal condition of children (under ten years) who were admitted for and died of Small-pox during the year in the Arthur Road Hospital. In all 227 were admitted into the Hospital during 1916; of these 113 were vaccinated and 114 un-vaccinated. Of the vaccinated, 100 recovered and 13 died. Of the un-vaccinated, 88 recovered and 26 died.

Vaccinal condition of children admitted into Hospital for Small-pox.

Age.	Vaccinated,				Un-vaccinated,			
	Admitted.	Recovered.	Died.	Case-rate.	Admitted.	Recovered.	Died.	Case-rate.
1 to 6 months ...	5	4	1	20·00	22	12	10	22·72
7 to 12 months ...	4	2	2	50·00	6	5	1	16·66
1 to 5 years ...	38	31	7	18·42	56	46	10	17·85
6 to 10 years ...	66	63	3	4·54	30	25	5	16·66
Total ...	113	100	13	11·46	114	88	26	22·80

YEARLY RETURN OF VACCINATION (EXCLUDING BANDRA AND KURLA) FROM THE SUPERINTENDENT OF VACCINATION, BOMBAY, FOR THE YEAR 1916.

[illegible]

N.B.—The statement includes vaccinations performed by Private Medical Practitioners and by the Medical Officers in charge of the two Jalls.

There are 16 Vaccination Stations including the Central Vaccination Depôt at Suparibag Road, Parel; of these Stations, three are worked on every Monday morning and two every morning during the rest of the week; while that at Kalbadevi Road is open every Sunday morning and on week days it is open during the afternoon hours only.

Vaccination is performed every afternoon excepting on Sundays and Holidays at Suparibag, Road—the office of the Superintendent of Vaccination.

Thus vaccination is a routine duty of the Department throughout the year; and vigorous efforts are made to push it on especially during the cold season.

The total number of vaccine operations performed during the year was 50,961—the highest on record against 29,837 in 1915.

As to the information asked for in Corporation Resolution No. 8107 of 19th March 1917, 1,272 capillary tubes were bacteriologically examined by the Municipal Analyst during the year under report. No extraneous micro-organisms were reported in any of these emulsions and no emulsion was rejected as the result of bacteriological examination. These tubes were samples from 360 glycerinated emulsions. Vaccine Tubes Tested.

There were 141 deaths registered from Cholera during the year under review against 16 deaths in 1915 and 221 in 1914. The number of Cholera attacks was 208. The disease, though prevalent throughout the year, did not reach epidemic proportions. Cholera.

1 attack and 1 death were registered in January; none in February; 3 attacks and 3 deaths in March; 1 attack (imported from Shillong) and one death were registered in April; 3 attacks (including two imported, one among recent arrivals from Busrah and one among those from Nasik) and 2 deaths occurred in May. Cholera by months.

June recorded 5 attacks (including 1 imported from Calcutta) and 7 deaths. But the incidence of the disease received a sudden impetus in July which registered 64 attacks and 39 deaths; 36 of these cases (the maximum number during any month in the year) were imported; these came from a very wide area—13 from Deolali, 1 from Nasik, 4 from Pandharpur, 2 from Surat, 6 from Cambay, 1 from Dehu, 3 from Kapadwanj, 1 from Rameshwar, 1 from Alandi, 1 from Ahmedabad, 2 among recent arrivals from Busrah and 1 in the Harbour. In August there were 62 cases inclusive of 8 imported (2 from Poona, 1 from Ratnagiri, 1 from Satpati, 1 from Broach, 1 from Chitoor, and 2 among recent arrivals from Busrah) and 43 deaths. In September there were 36 cases, including 8 imported, and 23 deaths; and in October 16 cases including 11 imported and 5 deaths. In these two months, 19 cases were imported, 3 from Calcutta, 1 from Poona, 1 from Malwan, 11 among recent arrivals from Busrah and 4 among those from the Harbour.

In November, there were 12 attacks including 5 imported (2 from Mangalore, 2 from Pandharpur and 1 from Ratnagiri) and 12 deaths were registered. December, however, recorded only 5 attacks and 5 deaths; there being 3 imported, 1 each from Sholapur, Sawantwadi and Nasik.

A special report regarding the small outbreak of Cholera in June confined to the troops and their followers in Colaba and Esplanade Sections—with the exception of two civilian cases and one Police case, was submitted to the Municipal Commissioner under this Office No. 16294, dated the 10th August 1916.

From Table No. 7 appended at the end of this report, it will be seen that the general death-rate from Cholera for the whole City was 14 in the year under report, being higher by 13 than that of 1915 (1). The disease was totally absent in Fort South, Walkeshwar and First Nagpada. Compared with the quinquennial mean, all the Sections excepting Upper Colaba and Chowpati registered a lower death-rate from the disease. Cholera by Sections.

The following table gives the Tuberculosis mortality and the death-rate per 1,000 of population in the Sections during 1915 and 1916:—

The death-rate from the disease for the entire City in 1916 (1·94) was higher than in the previous year (1·74) but lower than the mean of the last five years (2·29). The following Sections indicate rates higher than the mean :—

Sections.	Death-rate.	
	1916.	1911-1915.
Fort, Southern	11·26	2·31
Esplanade	3·99	3·09
Mahalakshmi	2·54	1·63
Second Nagpada	4·74	3·87
Tardeo	3·31	3·13
Byculla	1·43	1·35

The increase in the case of Fort Southern appears enormous, but the Section is mostly a business locality and not residential and exhibits high mortality rates.

The four Sections which recorded the highest ratios were Fort Southern (11·26), 2nd Nagpada (4·74), Kamathipura (4·73) and Esplanade (3·99); and the Sections that recorded the lowest rates were Walkeshwar (·93), Sewri (·78), Dongri (·55), Mazagon (·29).

MORTALITY AND DEATH-RATE PER 1,000 OF SECTION-POPULATION FROM TUBERCULOSIS.

Ward.	Sections.	1915.		1916.		Average of 1911-1915.	
		No.	Rate.	No.	Rate.	No.	Rate.
A	Upper Colaba	5	3·21	6	3·85	8	5·13
	Middle and Lower Colaba	25	1·27	20	1·01	28	1·42
	Fort, Southern	34	9·82	39	11·26	8	2·31
	Fort, Northern	60	2·36	76	2·99	76	2·99
	Esplanade	55	3·09	71	3·99	55	3·09
B	Mandvi	72	2·16	67	2·01	79	2·37
	Chukla	64	2·64	81	3·34	88	3·63
	Umarkhadi	112	2·45	92	2·01	234	5·12
	Dongri	20	·73	15	·55	67	2·45
C	Market	36	1·13	34	1·12	48	1·59
	Dhobi Talao	58	1·49	52	1·34	63	1·62
	Fanaswadi	35	1·27	34	1·24	37	1·35
	Bhuleshwar	48	1·31	37	1·01	49	1·34
	Khara Talao	65	2·82	61	2·65	82	3·56
	Kumbharwada	70	2·52	44	1·58	81	2·92
D	Khetwadi	84	2·63	86	2·69	99	3·09
	Girgaum	71	2·30	73	2·37	91	2·95
	Chowpati	26	2·28	21	1·84	27	2·36
	Walkeshwar	20	1·87	10	·93	17	1·59
	Mahalakshmi	48	1·82	67	2·54	43	1·63
E	Mazagon	11	·36	9	·29	41	1·36
	Tarwadi	69	2·42	95	3·34	107	3·76
	Second Nagpada	59	2·71	103	4·74	84	3·87
	Kamathipura	171	4·65	174	4·73	186	5·06
	Tardeo	63	2·25	92	3·31	87	3·13
	Byculla	86	1·14	108	1·43	102	1·35
	First Nagpada	4	·62	13	2·02	17	2·65
F	Parel	37	·81	50	1·09	54	1·18
	Sewri	6	·31	15	·78	19	·99
	Sion	29	·94	37	1·20	43	1·40
G	Mahim	34	1·11	50	1·63	59	1·93
	Worli	124	1·38	164	1·83	164	1·83
	Harbour, Docks, Railways and Homeless. }	9	·02	6	·13	5	·11
	Total...	1,710	1·74	1,902	1·94	2,248	2·29

The following table shows the death-rate from Tuberculosis in the different communities in 1916 calculated per 1,000 of population in the caste ; corresponding rates for the preceding year and the mean rate for the quinquennium 1911-1915 are given for comparison. It will be seen that the ratio for the entire City (1·94) is higher than in 1915 (1·74) but was much lower than the quinquennial mean (2·29) ; Hindus as a whole (1·67), Jews (1·66), Parsees (·78) and Europeans (·84) registered a lower rate than the City ; while Mussalmans (3·27), Native Christians (2·32) and Eurasians (2·38) registered a higher rate.

Tuberculosis by Race or Caste.

Among Hindu communities, Hindus low caste (2·80), Jains (2·73), and Bhatias (2·44) registered a higher ratio.

All the communities excepting Lingaits, Eurasians and Europeans recorded a lower rate than the average of the preceding five years, as will be seen from the following statement :—

RATE OF MORTALITY FROM TUBERCULOSIS BY CASTE.

RACE OR CASTE.							1915.	1916.	Average of 1911—1915.
Hindus	Jains	...	...	...	...	...	2·29	2·73	2·88
	Brahmins	...	...	...	...	...	1·34	·98	1·45
	Lingaits	...	...	...	...	...	9·32	11·87	8·48
	Bhatias	...	...	...	...	...	1·41	2·44	2·57
	Hindus of other Castes	...	...	...	...	...	1·30	1·55	1·75
	Hindus, Low Caste	...	...	...	...	...	2·72	2·80	3·54
Hindus, all Castes							1·46	1·67	1·92
Mussalmans (including Negro Africans)							2·98	3·27	3·99
Parsees							1·04	·78	1·19
Jews							1·06	1·66	1·66
Native Christians							2·08	2·32	2·95
Eurasians							2·86	2·38	1·91
Europeans							·92	·84	·67
Buddhists							1·73	.....	1·73
Other and unknown Castes							.....	.....	.....
TOTAL							1·74	1·94	2·29

The work of King George V Anti-Tuberculosis League referred to in my previous Reports continued to advance.

The work of the Anti-Tuberculosis League

It is carried out in intimate relation with the Health Department—as all cases coming to the notice of the Medical Officers of the League are reported to the Health Officer and to the District Registrars for disinfection, etc., and the District Registrars notify to them cases which come to their knowledge, so that the homes of such persons come under the supervision of the League. The following extracts will indicate the further work that has been carried on :—

“ The work of the League in 1916 was directed mainly to developing the existing institutions and completing the investigation into the prevalence of Tuberculosis in this City. A notable step in advance in the campaign was taken by the Government of Bombay in formulating “ Measures to be adopted for the spread of sanitary knowledge by the agency of nurses, sanitary instructors and health visitors ”. This was announced in Resolution No. 7597, dated the 16th November 1916, in continuation of the Resolution No. 1419 of 17th February 1915 which dealt with the subject of “ Providing Hospitals and Dispensaries for the treatment of advanced cases of Tuberculosis in the City of Bombay.” The recommendations of the Government are being carried out by the League, which has to depend upon a paid agency in the absence of “ Care and after Care Committees ” as in England and America. The Educational programme has been maintained by personal and homely talks during domiciliary visits and by full explanation of booklets containing all the important directions for the care of Tuberculous patients. These measures have done and are doing much good but a great deal remains to be done.

“ The dispensaries are intended for the treatment of the poorer classes of patients whose means do not permit of private medical aid. All classes of such patients suffering from consumption, scrofula, tubercular diseases of the bones and joints, as also from other forms of Tuberculosis are treated free by the two Medical Officers (Dr. C. Coutinho and Dr. N. V. Dhavale). They also pay free visits to such patients as are too ill to attend the dispensaries. Three Nurses have been engaged (Nurses Da Costa, Rodrigues, and Pathak) who in addition to helping the doctors in recording and examining the cases, and doing surgical dressings, pay domiciliary

Work of the Dispensaries.

visits to the homes of the patients under treatment, look into the sanitary condition of their dwellings, give advice as to the care of the patients and the methods of preventing the infection spreading from the sick to the healthy. They distribute the booklets prepared by the League in English, Marathi and Gujerathi, read and explain the same and demonstrate the practical application of the advice and suggestions laid down therein. They find ready listeners and are thus enabled to spread widely the knowledge about Tuberculosis. Early and suspicious cases and contacts are thus brought within the purview of our efforts and confirmed cases are persuaded to resort for free medical aid to the dispensaries.

“ During the last four years, an immense amount of Anti-Tuberculosis work has been accomplished. The Doctors have paid over 2,560 visits to the homes of the patients. The Nurses have paid similarly over 5,900 visits and have held “ Homely Talks ” and explained the leaflets several thousands of times. Their advice is attended to and acted upon whenever possible, so that the Nurses have been able to notice distinct improvement in the rooms and surroundings of the patients and the better way in which they are looked after, at their subsequent visits.

Tuberculosis Inquiry.

“ The Special Officer appointed to investigate into the prevalence of Tuberculosis has inquired into 3,240 cases, living and dead. He has shown that Kamathipura is the most infected Section of the City and that second Nagpada, Kumbharwada, Umerkhadi, Chukla, Khara Talao, Fort North and Tardeo are also centres of heavy infection. He has found that the Telugu Community is very highly infected and has traced a prolific source of infection among the women *beedi* makers who work under the most unhygienic surroundings.

“ During its four years’ work, 2,461 Tuberculosis patients (872 in 1916, as compared with 501, 541, and 542 in previous years) have sought relief at the League’s dispensaries. Of this number, 1,352 were Hindus, 551 Mahomedans, 261 Parsees, 262 Christians and 35 Jews. All forms of Tuberculosis came under observation, pulmonary consumption having the largest admissions, viz., 1,535, Glandular Tuberculosis 674, Bone Tuberculosis 67, and other forms 185. They were found in different communities as under :—

Forms of Tuberculosis.	Hindus.	Mahomedans.	Parsees.	Christians.	Jews.
Tuberculosis of Lung	256	116	67	17	5
“ of Gland	157	59	16	26	6
“ of Bone	11	4	2	4	1
“ of other kinds	44	12	12	4	3

“ The Age-incidence of Tuberculosis has been worked out among the above patients, and it shows that the disease increases steadily onwards from early age (though different in type) until the age of 30. Between 31 to 35 years, there is a marked decline. Subsequently the decrease is continuous up to 60 years :—

Tuberculosis by Age periods.

1—5	6—10	11—15	16—20	21—25	26—30	31—35	36—40	41—45	46—50	51—55	56—60
59	163	284	512	501	396	227	146	90	39	28	16

The houses of all these patients were visited, at least once and oftener, more than once by the Nurses, who paid 5,914 visits. Their advice was listened to with attention, often pertinent questions were asked and from among the listeners, patients and contacts were revealed. The people do not now exhibit unwillingness to follow the advice given, but do so, so far as their means permit. The Medical Officers accompany the Nurses in some of their visits and they also go to treat those too ill to attend at the dispensaries. They have paid 2,567 visits.

“ Private Practitioners and Municipal authorities have begun to refer poor patients for treatment in larger numbers. The combination of all the above agencies therefore has been instrumental in doing good to the patients as also to those living amidst them.

"The Medical Officers, Drs. Coutinho and Dhavale relate in detail the work they have done in their respective reports and invite the attention of the public to the increase of Tuberculosis due to larger facilities for travel which tend both to import and export the disease. Students, class-teachers, and those following sedentary occupations or such occupations as confine the workers to ill-ventilated, humid, and warm rooms have been found to be more prone to Tuberculosis.

"Much has been said by some people to prejudice the public about the treatment of Tuberculosis by Tuberculin. They do not realise that Tuberculin treatment has never been and can never be given wholesale. It has been applied judiciously, with care, and circumspection in a few suitable cases only and has done much good. Of 140 patients who were submitted to it, continuously, 90 benefited, in 35 the disease remained stationary, and in 10 only the patients grew worse after treatment. This shows that the treatment has not been adopted indiscriminately, as only 140 patients were treated continuously out of 872. Tuberculin Treatment.

"In addition to his work at the Kamathipura Dispensary, Dr. Dhavale continued his investigations into the prevalence of Tuberculosis by inquiring into the history, and visiting 893 living cases. His results may be summarised as follows :—

1. Non-Pulmonary Tuberculosis is most prevalent under the age of 10.
2. Pulmonary Tuberculosis increases up to 30 years and gradually declines upto 70.
3. The female rate always exceeds the male rate.
4. Bidi-making in the Kamathipura District, where ninety per cent. of Hindu women are engaged in this occupation in low, overcrowded, ill-ventilated and dark rooms is a prolific source of Pulmonary Tuberculosis.
5. Heredity is not the principal factor in propagating the disease from parent to offspring, but the causes are inherent in the surroundings of the children and in the constant contact with infected parents or relatives.
6. The Telugu community has now been roused to take interest in the prevalence of Tuberculosis in its midst, and some tangible efforts to combat the disease by providing a clinic and Sanatorium at Deolali are under contemplation.

"The information Bureau has supplied full information about the work of the League to various authorities, and several Medical Men and Health Officers have visited the League to obtain information at first hand.

"The Museum has been a constant source of attraction drawing daily a large number of visitors, who read and discuss the exhibits. Our Leaflets in English, Gujarathi and Marathi have been recently revised and reprinted and are freely distributed.

"In connection with the Educational Propaganda, an innovation was started in Kamathipura by the League's Nurse by collecting the mothers-in-law and lecturing to them on Tuberculosis and on the advisability of their treating their daughters-in-law with consideration and kindness when under treatment of the League's Medical Officer. Educational Propaganda.

"Our local efforts, however laudable, look extremely small in comparison to what is being done elsewhere. For instance, the Local Government Board has sanctioned up to 30th April 1916, 288 Residential Institutions providing 11,227 beds for the treatment of Tuberculosis. It has approved the selection of 257 Tuberculosis Officers and has given maintenance grant for Anti-Tuberculosis work amounting to £ 218,376-18-6 during 1915-1916."

The number of deaths registered under the general heading of "Fevers" (including Scarlet, Enteric, Malaria, Ague and Remittent and Relapsing Fevers) was 2,141 being 150 more than in 1915, 807 less than the average of the preceding quinquennium and 1,116 less than the decennial average (1906-1915); the rate of mortality from Fevers per 1,000 of population (2·18) was the lowest since 1848 except in 1915 (2·13). Fevers.

Scarlet Fever occasioned no death as in 1915 but Relapsing Fever recorded 3 deaths during the year under report.

To Enteric Fever 168 deaths were due, being 59 more than in 1915 and 27 more than the preceding quinquennial average.

Malaria recorded 238 deaths, being 30 more than in 1915 but 37 less than the average of the preceding quinquennium (1911-1915).

From Ague and Remittent Fever 1,735 deaths were recorded, being 39 less than in 1915 and 797 less than the average of the preceding quinquennium.

The following statement gives the monthly variations of mortality in 1916 from all kinds of Fevers in general and from each type separately. The maximum mortality from Fevers was reached in March (being 228 against 219 in August 1915) and the lowest registered in November (158 against 131 in February of the preceding year).

FEVER MORTALITY BY MONTHS IN 1916 AND 1915.

MONTHS.					1916.				1915.
					Enteric.	Malaria.	Ague and Remittent.	All Fevers.	All Fevers.
January	...	...	...	...	9	24	119	152	154
February	...	...	...	...	15	10	136	161	131
March	...	...	...	...	25	15	188	228	152
April	...	...	...	...	9	12	188	209	195
May	...	...	...	...	11	15	165	191	205
June	...	...	...	...	12	21	143	176	152
July	...	...	...	...	17	15	132	164	168
August	...	...	...	...	16	21	140	177	219
September	...	...	...	...	18	31	132	181	214
October	...	...	...	...	15	30	116	161	178
November	...	...	...	...	10	16	132	158	163
December	...	...	...	...	11	28	144	183	160
Total					168	238	1,735	2,141	2,091

Measles. Measles caused 344 deaths, being 274 more than in the previous year and 61 more than the average of 1911-1915.

Influenza. To Influenza 6 deaths were due against 1 in 1915 and 3 the average of the preceding quinquennium.

Whooping Cough. Whooping Cough registered 7 deaths, being 5 less than in the preceding year and the average of the previous five years.

Diarrhoea. Diarrhoea caused 1,624 deaths, being 58 more than in the antecedent year but 613 less than the average of 1911-1915.

Dysentery. To Dysentery 796 deaths were due, being 167 more but 185 less than in 1915 and the average of the previous five years respectively.

Puerperal Septicæmia. Puerperal Septicæmia registered 229 deaths, being 9 more than in the last year but 81 less than the average of the preceding five years.

Leprosy. From Leprosy 87 deaths were registered, being 28 more than in the previous year and 7 more than the average of 1911-1915.

Cancer. Cancer caused 70 deaths against 72 in 1915 and 68 the average of the preceding quinquennium.

Premature Birth. The number of deaths amongst children born prematurely was 357, being 145 more than in 1915 and 162 more than the average of 1911-1915.

Debility. To Debility 2,215 deaths were due, being 168 more than in the preceding year but 141 less than the average of the previous five years.

Old Age. Old Age caused 1,102 deaths, being 139 and 612 less than in the last year and the average of 1911-1915 respectively.

Jigger. 277 cases of Jigger were admitted into the Arthur Road Hospital; they came from East Africa where they had been on active service. All the cases recovered, except one who died of General Tuberculosis.

From the Diseases of the Nervous System, 1,955 deaths were registered, being 419 more than in 1915 and 19 more than the average of the previous five years. Diseases of the Nervous System.

The Diseases of the Circulatory System caused 405 deaths against 339 in 1915 and 346 the average of 1911-1915. Diseases of the Circulatory System.

Tubercle of Lungs registered 1,680 deaths, being 269 more than in the previous year but 188 less than the average of the last five years. Tubercle of Lung (Phthisis).

To the Diseases of the Respiratory System 9,649 deaths were due, being 2,879 more than in 1915 and 1,162 more than the average of 1911-1915. Diseases of the Respiratory System.

From the Diseases of the Digestive System 1,284 deaths were registered, being 231 and 76 more than in the previous year and the average of the preceding five years respectively. Diseases of the Digestive System.

The Diseases of the Lymphatic System registered 11 deaths against 14 in the preceding year and 12 the average of the previous quinquennium respectively. Diseases of the Lymphatic System.

To the Diseases of the Urinary System 292 deaths were due, being 9 more than in the previous year but 25 less than the average of 1911-1915. Diseases of the Urinary System.

The number of deaths from the Diseases of the Generative System was 167, being respectively 40 and 21 more than in 1915 and the average of the previous quinquennium. Diseases of the Generative System.

From the Diseases of the Organs of Locomotion and Connective Tissue 90 deaths were registered, being 1 more than in the preceding year but 6 less than the average of 1911-1915. Diseases of the Organs of Locomotion and Connective Tissue.

The number of deaths from Accidents and Violence during the year was 762, being 156 more than in the preceding year and 111 more than the average of the previous five years. Of these 66 deaths were due to poisoning, being 22 and 9 more than in 1915 and the previous quinquennial average respectively; of these, 33 were suicidal, 15 accidental, 1 homicidal, 3 from snakebite and in 14 cases the circumstances under which the poison was administered were not known. 79 deaths were the result of Drowning, being 2 more than in the previous year but 7 less than the average of 1911-1915; of these, 14 were suicidal, 37 accidental and in 28 cases the circumstances under which the deaths took place were not known. Accidents.

The twelve Municipal Dispensaries, including "Parbhadevi Road Dispensary" and "Bai Gowrabai Dispensary" at Kamathipura, both opened in 1912, were open throughout the year to administer, as in the past, free medical relief to the sick poor of the City. Municipal Dispensaries.

The actual number of new cases (individuals) treated at the Dispensaries during the year was 1,04,565 (69,087 males and 35,478 females) against 1,01,707 in 1915, making 4,17,812 the total number of attendances against 4,35,889 in the previous year. Of these, 1,516 patients were seen at their houses.

The Diseases treated at these Dispensaries were Small-pox, Measles, Plague, Fever, Diarrhoeal Diseases, Diseases of the Nervous, Circulatory, Respiratory, Digestive, Urinary and Generative Systems and other general and local diseases.

The actual number of new cases individually treated at the Colaba and Victoria Bunder Charitable Dispensaries (to which a contribution is paid by the Municipality and which are under the control of the Registrar No. 1 District, who visits them daily) was 9,482 (6,660 males and 2,822 females), making 39,524 the total number of attendances; out of these, 30 patients were seen at their houses.

The number of Notifications of Infectious Diseases received during the year under report was 2,665 against 836 in the previous year. Of these, 1,094 were of Plague, 202 of Phthisis and other Tubercular Diseases and 1,369 of other Infectious Diseases. Notifications of Infectious Diseases.

From "Hakims and Vaidyas" 1 Notification was received during the year.

The percentage of Notifications received, which had risen from 11.29 in 1910 to 16.00 in 1914, further rose to 23.36 in the year under report, after a sharp fall in 1915 (12.15).

ertification of the
Cause of Death.

The total number of Certificates of the Cause of Death received during the year was 9,568 against 7,122 in 1915; of these, 5,033 were from qualified Medical Practitioners, 169 from Hakims and Vaidyas, 3,543 from various Hospital Authorities. The causes of 647 and 176 deaths were certified by the Commissioner of Police and the Coroner of Bombay respectively. The percentage of certification, it will be noticed, has been steadily rising. It was 8.6 in 1910 and nearly double that in 1916 (17.0).

The cause of 556 deaths was certified by the Registrars after seeing the persons during their last illness, the cause of 19,847 deaths was verified by the Registrars on the information gathered from the relatives of the deceased and of 601 after seeing the dead bodies. In 2 cases the cause of death could not be ascertained as the residence of the deceased could not be traced.

Year.	No. of Notifications received from			Percentage of total Notifications to number of cases reported by District Registrars.	Number of Certificates of Cause of Death received from			Percentage of total Certificates received to Total Mortality.
	Medical Practitioners.	Hakims & Vaidyas.	Total.		Medical Practitioners.	Hakims & Vaidyas.	Total.	
1910	1,487	68	1,555	11.29	2,894	134	3,028	8.66
1911	1,551	53	1,604	11.63	3,994	287	4,281	12.24
1912	1,687	31	1,718	11.32	4,891	289	5,180	13.29
1913	1,765	34	1,799	15.07	4,620	236	4,856	15.26
1914	1,746	30	1,776	16.00	4,620	203	4,823	15.14
1915	836	.....	836	12.15	3,501	152	3,653	15.42
1916	2,665	1	2,666	23.35	5,033	169	5,202	17.01

Copies of Certifi-
cates issued.

During the year 816 copies of Certificates of Registry of Death and 177 of those of Birth and 11 true copies of Birth and Death Reports and Medical Certificates were issued and the total fees received on account of them and for searches of Birth and Death Registers for indefinite periods as well as for producing such Registers in Courts of Law amounted to Rs. 1,350-0-0 against Rs. 1,277-12-0 in 1915.

Notices under the
Act.

The number of notices served by the Health Department during the year under the various Sections of the Municipal Act was 4,021 against 4,572 in the preceding year. Of these, 2,133 were complied with, 1,283 were not complied with, 195 cancelled, and 410 were pending at the close of the year.

In 3,271 cases, summonses were issued by the Presidency Magistrates at the instance of this Department against 2,756 in 1915. Convictions were obtained in 1,544 cases and in 937 cases the parties were warned and discharged; 30 cases were dismissed; 717 withdrawn, the offences having ceased. 43 cases were pending at the close of the year. Of the notices, 3 were issued against overcrowding in E Ward and they were complied with.

Conservancy
Work.

The number of carts of cutchra, drain stuff and other matter emptied at the Tardeo Flats and other places in the City during the year was 7,56,426 against 6,61,485 carts in the antecedent year. Of these, 6,13,333 were Departmental and 1,43,093 private. This increase is due to the passing of troops through the City and the increase in the milch cattle and bullock stables and general increase of trade.

During the year, 92,924 night-soil and cesspool carts and 39,63,803 night-soil baskets were emptied at the several Night-soil Depôts in the City, as compared with 87,837 night-soil and cesspool carts and 41,35,438 night-soil baskets in the previous year. Of these, 3,660 night-soil carts were private and the rest Departmental. The decrease in the year under report of 1,71,635 night-soil baskets is partly due to the reduction of Halalkhors and partly to the substitution of basket privies by water-closets.

Administration of Public Health.

For administration purposes, the City has been divided into seven Wards, each under the subordinate charge of a Deputy Health Officer who is responsible for both the Conservancy and Sanitary work of his Ward. The Deputy Health Officers are assisted by a staff of Sanitary and Conservancy Inspectors. The Deputy Health Officers are under the direct control of the Executive Health Officer who is assisted by two Assistants.

Administration of
Public Health.

For the purposes of the Registration of Births and Deaths and free Medical Relief, the City has been divided into ten Districts with ten Municipal Charitable Dispensaries each in charge of a Registrar, assisted by two Sub-Registrars who are all qualified medical men; one trained visiting Nurse and Midwife is attached to each District Office. In addition to these ten Dispensaries, two more were opened in 1912 (one at Purbhadevi and the other, " Bai Gowrabai Dispensary ", at Kamathipura; the former Dispensary is in charge of the Registrar No. 10 District and the latter of No. 8 District. Each of the District Offices is equipped with staff for registering births and deaths, enquiring into the cause of death, checking Cemetery Returns, and for disinfecting houses and rooms where cases of Infectious Diseases may have occurred or dead rats may have been reported. The work of the Registrars is supervised by the Deputy Health Officers and the Executive Health Officer with his two Assistants.

There is also a Special Assistant Health Officer in charge of the Arthur Road Hospital for Infectious Diseases and the Maratha Hospital for Plague.

There is also a Special Assistant to the Health Officer for Malaria, in charge of the Special Malaria Department.

For analytical and bacteriological examination, there is a Municipal Analyst in charge of a fully equipped Chemical and Bacteriological Laboratory, where chemical analysis and bacteriological examination of Municipal waters is conducted by him.

The Veterinary Staff includes three Inspectors, one Assistant Inspector with a Shalotri, who are all qualified Veterinary Surgeons and inspect the Milch Cattle Stables in the City and the Municipal Bullocks and are in charge of the Municipal Bullock Hospital and Segregation Sheds at Tardeo Flats specially erected for the care and treatment of animals found to be suffering from Infectious Diseases.

The Vaccination Staff includes, besides the Superintendent and the Assistant Superintendent, one Head Vaccinator and nine other Vaccinators, one Head Clerk and four subordinate Clerks.

The Conservancy and Sanitary Staff, exclusive of the labour staff, consisted in 1916 of—

- 3 Chief Inspectors.
- 8 Sanitary Inspectors.
- 9 Conservancy Inspectors.
- 6 House Drain Inspectors.
- 7 Assistant Sanitary Inspectors.
- 54 Sub-Inspectors (including 12 House Drain Sub-Inspectors).
- 1 Halalcore Inspector.
- 26 Sub-Inspectors.
- 5 Sub-Inspectors for the control of sale of adulterated milk.

1,585 prosecutions for infringing license conditions and selling adulterated milk were instituted by the Deputy Health Officers A to G Wards and in 1,346 cases convictions were obtained and the parties fined; in 133 cases the parties were warned and discharged. 43 cases were dismissed and 51 withdrawn, 12 cases were pending at the close of the year.

Prosecutions by
the Health Depart-
ment for infringing
license conditions
and selling adu-
lterated milk.

Destruction of
stray and ownerless
Dogs

During the year under notice 5,288 stray dogs were caught; out of the number, 5,045 ownerless dogs were destroyed by Carbonic Acid Gas at the Lethal Chamber provided for the purpose on Tardeo Flats and 243 returned to their respective owners.

A small out-break of Cholera occurred in the month of June during the year in A Ward which owing to the prompt measures taken by the acting Health Officer and his staff was confined and checked.

Although the epidemic was brought under control rapidly, it was a cause of great anxiety at the time, as it occurred amongst the troops in Marine Lines and Colaba.

The origin of the out-break was thoroughly inquired into and the milk supply which came from Cholera infected Districts was suspected. Dr. Goldsmith's report to the Corporation gives full details of the inquiries made and the results of the bacteriological investigation (Health Officer's No. 16294 of 10th August 1916).

Unwholesome
food seized and
destroyed by the
Health Department
Staff.

During the year, action under Sections 415 and 416 of the Municipal Act for the seizure and destruction of unwholesome food was continued as in previous years by the Staff of this Department and a list of such articles seized and destroyed in the seven Wards of the City is given below :—

A Ward :—11,831 Mangoes, 183 lbs. Ham and 800 lbs. cheese.

B Ward :—1,001 Mangoes, 46 cases of Cheese, 7 Plantains, 9 Guavas, 12 Pears, 2 cart loads of Wheat, 24 bags of Rice, 1 basket Dates.

C Ward :—2,296 Mangoes, 78 Plantains, 35 Guavas, 185 Plantains and Guavas, 60 Figs, 18 Sweet Limes, 139 bags of Gram.

D Ward :—745 Mangoes, 16 Plantains, 2 Papias, 6 Oranges, 1 Pine Apple.

E Ward :—1,577 Fruits of different kinds.

F Ward :—274 Mangoes, 45 Plantains, 2,563 lbs. Meat, 7 lbs. Fish (dry), 24 Oysters, 1 basket Prawns, 26 Water-melons, 15 lbs. Sweetmeat, 2 maunds Onions, 12 seers Potatoes.

G Ward :—813 Mangoes, 243 Plantains, 7½ lbs. Dates, 427 lbs. Meat, 64 slices of Water-melons, 36½ lbs. Bhajas, 13 lbs. Brinjals, 25 "Targola" fruits, 29 lbs. Cucumber, 25 seers Cocoanuts, 90 lbs. Fish, 3½ lbs. Jauggery, 30 Kaju Fruits, 44 Oranges, 84 lbs. Pork, 5 lbs. Parched Grain, 41 lbs. Vegetables.

Work of the De-
partment

During the year under report I was on combined leave from 5th April to 22nd November and my Senior Assistant Dr. B. K. Goldsmith acted as Executive Health Officer.

The routine work has considerably increased owing to the increase in the population and the movement of Troops and War conditions generally and the Out-door Staff carried out their duties efficiently. The Malaria Branch, the Infectious Diseases Hospital, the Municipal Laboratory, the Vaccination Department—all carried out their routine work successfully.

The Clerical Staff at the head of which is Mr. N. S. Kowshik assisted by Mr. Nagindas Jamnadas have again performed their arduous duties under rather exceptional circumstances in a most satisfactory manner. Every year sees fresh work thrown on the clerical staff which needs the introduction of younger and more efficient men in the junior grades.

PUBLIC HEALTH DEPARTMENT,
Bombay, 1st May 1917.

J. A. TURNER, M.D., D.P.H.,
Executive Health Officer.

Report of the Arthur Road Hospital for the year 1916.

I.—ADMINISTRATION.

1. *Changes in the Staff.*—During my absence on privilege leave for two months, Dr. A. D. Contractor was in charge of the hospital. On the reversion of Nurse Mrs. Watson to District work, Nurse Mrs. H. A. Broad was transferred to her post from the Maratha Hospital in June. The permanent staff was augmented by five temporary Nurses, one compounder and 48 menial servants, in order to cope with the epidemic of Small-pox.

II.—GENERAL STATISTICS.

2. The total number of admissions was 1,864, as compared with 878 during the previous year, and 826 in 1914. The maximum number of patients treated on any particular day was 238 on 27th March, as compared with 126 and 74 respectively in 1915 and 1914.

3. Owing to the severe outbreak of Small-pox, the Arthur Road Hospital became exclusively a Small-pox Hospital. All other infectious diseases had therefore to be treated at the Maratha Hospital. This arrangement continued from 23rd March to 2nd June. Thereupon as Cholera cases began to be admitted; Small-pox and Cholera were thus the two diseases treated from 9th June to 6th November. Subsequently, Chiggre, Measles and Chicken-pox cases were admitted up to the end of the year.

4. The principal admissions were from Small-pox 1,142; Chicken-pox 130; Cholera 118 and Chiggre 277, as compared with 440, 106 and 118 respectively in 1915.

5. *Military Patients.*—Indian troops and followers on their way to and from active service from Overseas, suffering from various infectious diseases were admitted during the year. They were transferred from the War Hospitals and Transport and Hospital Ships. They comprised 277 cases of Chiggre; 32 of Cholera; 14 of Chicken-pox, 10 of Mumps, 8 of Small-pox, 1 of Relapsing Fever and 31 cases under observation. The fatality among these patients was but 5 only, viz:—1 each from Small-pox and Chiggre and 3 from Cholera. During 1915 only 46 military cases were treated:—Chiggre 12; Cholera 11; Mumps 10; Chicken-pox 6; Small-pox 3, and observation for Cholera 4. The fees recoverable from Government for their treatment at the rate of Rs. 1-8-0 per head per day, amounted to Rs. 5,886 during the year and Rs. 1,359-12-0 in 1915.

6. The following table shows the details of admissions, deaths, recoveries and case mortality rate per cent. among 1,864 admissions:—

Diseases.					Admissions.	Deaths.	Recoveries.	Case-mortality rate per cent.
Small-pox	...	...	...	...	1,142	221	921	19.35
Chicken-pox	...	...	...	...	113	.....	113	.....
Measles	...	...	...	...	35	1	34	2.85
Cholera	...	...	...	...	118	40	78	33.89
Relapsing Fever	...	...	...	...	1	.....	1	.....
Mumps	...	...	...	...	18	.....	18	.....
Plague	...	...	...	...	*2	.....	.....	.....
Chiggre	...	...	...	...	277	†1	276	0.36
Observation Cases	...	...	...	...	158	21	137	13.29

* Transferred to Maratha Hospital.

† Death due to General Tuberculosis.

7. No Pilgrims suffering from Small-pox or other infectious diseases on their way to and from Mecca were admitted during the year.

III.—SMALL-POX.

8. The Small-pox epidemic of 1916 was the heaviest on record except that of 1905; 1,142 patients were admitted, as compared with 1,450 in 1905. In the course of the last twenty-four years there have been nine years, when Small-pox appeared in epidemic form and the admissions per annum ranged from 413 to 828. In 1900, there were 786 admissions; in 1903, 673; in 1904, 476; in 1908, 828; in 1909, 413; in 1910, 685; and in 1915, 440. The admissions during the year commenced increasing from the beginning of January, attained the maximum in March and gradually declined in June. There were 123 admissions in January, 192 in February, 375 in March, 246 in April, 132 in May, 34 in June, 13 in July, 11 in August, 9 in September, 1 in October, and 6 in December. November was thus the only month in which there was no admission. The mortality rate in spite of the heavier admissions was 19·35 per cent. as compared with 22·50 per cent. in 1905.

IV.—VACCINAL CONDITION OF SMALL-POX PATIENTS.

9. The rate of mortality among 801 vaccinated cases was 13·73 per cent. This would have been considerably reduced if the majority of the Goan patients—156—had been eliminated as for all practical purposes they may be considered inadequately protected. The unvaccinated cases numbering 341 had the heavy mortality rate of 32·35 per cent., *i. e.*, more than two and half times as high as in the vaccinated.

10. The following statement compares the details of case mortality rate during the last eight years:—

Year.	Vaccinated Cases.		Unvaccinated Cases.	
	Number.	Case-mortality rate per cent.	Number.	Case-mortality rate per cent.
1909	226	14·1	187	42·2
1910	399	18·0	286	41·9
1911	202	10·8	138	39·8
1912	426	16·9	232	40·5
1913	132	18·1	71	36·6
1914	182	19·2	101	33·6
1915	267	12·3	173	36·9
1916	801	13·7	341	32·3

From the foregoing table it will be observed that the lowest mortality rate among the vaccinated was 10·8 per cent. and the highest 19·2 per cent. This variation is due mainly to the proportion of Goan patients computed as vaccinated, though practically their immunity by protection is very low. Among the unvaccinated, the mortality rate ranged between 32·3 per cent. to 42·2 per cent. and was thus more than double that of vaccinated cases. During one year it was more than treble and in another, more than quadruple. In this connection it has to be noted that all the vaccinated patients had undergone but one vaccination in infancy and the number of those revaccinated was but infinitesimal.

11. The hospital statistics of Small-pox now extend over a period of 29 years, that is from my first connection with Municipal Infectious work in 1888. During this period 10,393 Smallpox cases have been treated. They comprised 5,645 vaccinated cases and 4,748 unvaccinated. The rate of case mortality among the former was 15·50 per cent. and in the latter 35·30 per cent.:—

Vaccinated Cases.				Unvaccinated Cases.			
Number	Died.	Recovered.	Case-mortality rate per cent.	Number.	Died.	Recovered.	Case-mortality rate per cent.
5,645	876	4,769	15·50	4,748	1,677	3,071	35·30

The above data are the largest extant in connection with any similar institution in this Presidency and they incontestably prove the efficacy of even one primary vaccination in mitigating the fatality from the disease even up to adult life. The benefits accruing from it could be shown to be still better than what they are, if all imperfectly vaccinated persons, as also the majority of Goans were to be eliminated from the vaccinated class. Taking however the figures as they stand, they demonstrate the fact that the mortality among unvaccinated patients was more than twice as high as in those protected by even one vaccination in early life.

12. The incidence of racial mortality in Small-pox is very instructive. The social and economic conditions of the people and their mode of living exert special influence in this regard. Hindus as a race are better protected by vaccination, the rate of mortality among those vaccinated was but 12·0 per cent. In marked contrast, the unvaccinated exhibited a rate almost three times as high, due to imperfect conditions of vaccination in their villages, where most of the women go for their confinement, and to the fact that a large proportion of the infants born up-country, and brought into the city escape vaccination through parental carelessness, indifference or sheer ignorance about vaccination. On the other hand, Mahomedans showed a slightly higher rate of mortality among both classes; there is no doubt that the seclusion of their women as also the fact that a large number of unprotected men from Eastern Bengal and Assam used to go to the Hedjaz at an advanced age, contributed to the high fatality of 38·5 per cent. in the unvaccinated. The fact that the Native Christian patients mostly Goans had the highest mortality rate of 20·3 per cent. in the vaccinated class and the lowest 31·1 per cent. in the unvaccinated, is capable of explanation on the hypothesis that many classed as vaccinated were not really so and had been included from their bare statements. The difficulty in getting reliable data from them is enormous, and it would not therefore be at all erroneous to class all those patients who do not exhibit vaccinal marks as unvaccinated. That too is however not practicable in semi-confluent and confluent cases, where the arms are covered up with thick eruption. The vaccinal data in the case of Native Christians cannot therefore be held to be strictly accurate :—

CASTE.	Vaccinated Cases.				Unvaccinated Cases.			
	Number.	Died.	Recovered.	Case-mortality rate per cent.	Number.	Died.	Recovered.	Case-mortality rate per cent.
Hindus	1,640	211	1,429	12·8	618	223	395	36·0
Mahomedans ..	294	45	249	15·3	381	147	234	38·5
Native Christians ..	716	146	570	20·3	898	280	618	31·1

V.—VACCINAL CONDITION OF CHILDREN UNDER 10 YEARS.

13. As regards the vaccinal condition of children under 10 years of age, the data as usual indicate a preponderating higher rate of mortality among the unvaccinated. In 1915 the fatality among 31 unvaccinated children was 29·0 per cent. as compared with but 7·3 per cent. among 41 vaccinated. During the year under report, the number of vaccinated and unvaccinated children under 10 years was about equal, 113 and 114. The mortality among the unvaccinated was about double; but in many cases, especially amongst children from 1 to 6 months, 7 to 12 months and 1 to 5 years, where the mortality rate was equally high, the vaccinal marks amongst the vaccinated children were either invisible or extremely faint, indicating that primary vaccination had not been properly performed :—

Year 1916.	Vaccinated Cases.				Unvaccinated Cases.			
	Admitted.	Died.	Recovered.	Case-mortality rate per cent.	Admitted.	Died.	Recovered.	Case-mortality rate per cent.
1 to 6 months	5	1	4	20·00	22	10	12	22·72
7 to 12 „	4	2	2	50·00	6	1	5	16·66
1 to 5 years	38	7	31	18·42	56	10	46	17·85
6 to 10 „	66	3	63	4·54	30	5	25	16·66
Total	113	13	100	11·46	114	26	88	22·80

VI.—CHIGGRE.

13. The number of admissions from Chiggre was 277. All the cases had come from East Africa where they had seen active service in British as well as German possessions. The majority of patients were convalescent, having been treated either in the local hospitals or on board the transports. A few only were suffering from ulcers and sinuses that healed rapidly under appropriate treatment. The insects producing the disease, their ova and larvæ could not be found as previous treatment had removed the same. All the patients except one recovered, the cause of death being general tuberculosis.

VII.—CHOLERA.

14. There were 118 admissions from Cholera during the year. They began in June and continued up to November. The first cases admitted were from the Marine Lines War Hospital and subsequently a few local and overseas cases. The admissions were 14 in June, 31 in July, 39 in August, 19 in September, and 11 in October and 4 in November.

15. *Bacteriological Examination*.—A systematic bacteriological examination of the dejecta was undertaken; two samples from each case were taken, one being submitted to the Parel Laboratory and the other to the Municipal Analyst. In a large proportion of cases in the stage of collapse, stools were not available; and the patients were therefore given a rectal saline to wash off the lower bowel and the fluid was examined as above. The results of the examination were as under:—

78* Recovered cases.	Number of cases.	+	—	Percentage of + to total cases.
Acute cases	65	53	12	81·5%
Convalescent	11	3	8	27·2%
Carrier	1	1	0	100·0%

* One case not examined.

40* Fatal cases.	No.	+	—	Percentage of + to total cases.
Acute cases	38	36	2	94·7%

* Two cases not examined.

The results were however not uniform from the two laboratories. The total number of specimens examined was 147; and positive results were 77 from the Parel Laboratory as against 67 from the Municipal Analyst. This discrepancy is due no doubt to the technique employed, as also to the inference drawn from the findings as to whether the organism isolated was a "true Cholera" vibrio or a "Cholera-like" vibrio.

16. *Cholera Carriers*.—One patient was admitted as suspected Cholera carrier on account of the agglutination test having been found to be positive. The patient denied having ever suffered from the disease. The first examination of the stool proved to be positive; but subsequent examinations were negative. Among the patients who recovered systematic examination of the dejecta during convalescence was undertaken at varying periods, from the eleventh to the forty-seventh day after admission. In 2 cases out of 77 examined, Cholera vibrios could be recovered; in one case the examination was positive on the 29th day and in the other on the 20th day; in the latter case the first examination in the acute stage was however negative. This result coinciding as it did, at both the laboratories, indicates the uncertainties attending bacteriological results in Cholera in some cases. It was not found possible to keep the patients under observation for longer periods and when two successive examinations at intervals of a week or ten days proved to be negative the patients were discharged from the hospital. The proportion of carriers among convalescent may be estimated probably at not more than about 3%.

17. *Clinical Features of the Cases.*—Cholera cases treated at this Hospital since 1905 have fallen into three distinct categories according to the methods of treatment adopted from time to time. In the annual report for the year 1912, full details were given for 3 years, 1910-11-12. It is proposed here to summarise the condition of 327 patients treated from 1913-1916. Among these cases there were 107 deaths and 220 recoveries, the rate of case mortality was 32·7 % and therefore lower by 15·0 % than during 1910-12. The following statement compares the details of admissions, deaths and recoveries from 1893 to 1916 :—

Periods.	Admission.	Deaths.	Recoveries.	Case mortality rate per cent.
1893-1904	930	696	234	78·00
1905-1909	687	364	323	53·00
1910-1912	547	261	286	47·07
1913-1916	327	107	220	32·07

It will be observed from the foregoing data that there has been a steady decline in the mortality rate from 75·0% to 32·07%. To put it in other words, whereas but 25 patients out of every 100 recovered during 1893-1904, the average rate of recovery now is 67. From 1905 to 1916, there were reported in this City 8,800 attacks and 8,033 deaths, exclusive of hospital admissions. Their case mortality rate was therefore 91·2%. Nothing could better demonstrate the virulence of the disease as it prevails in Bombay in spite of the fact that all the attacks did not arise during severe epidemics and that even among sporadic cases, imported and local, the fatality was exceptionally high. The above hospital data therefore compare very favourably with the average mortality rate in the city of all cases treated and untreated.

18. The cases were of exceptional severity and except about 10·0% all were in the stage of collapse of varying degree. Grave collapse existed in 80·3% among 874 cases treated between 1910 and 1916. The urine was found suppressed in 97·7% and the pulse imperceptible at the wrist in 63·1 %. The clinical features sufficiently indicate the gravity of the condition of the patients at the time of admission, almost all of whom had been brought in after they had reached the stage of collapse. And besides they belonged to the lower and labouring classes of Indians whose power of resistance to the infection is low, living as they do in the midst of insanitary conditions without sufficient food and without the usual amenities of a civilised community.

19. *Death Causes.*—The causes of death among 368 fatalities from 1910-16 were as follows :—

Grave Collapse	142	—	38·5%
Uræmia	128	—	34·7%
Toxæmia	55	—	14·9%
Pneumonia	17	—	4·6%
Marasmus and Exhaustion	14	—	3·8%
Sudden Heart Failure	12	—	3·2%

As usual in these cases, Grave Collapse, Uræmia and Toxæmia were the principal causes that contributed to the fatal result.

20. *Complications and Sequelæ.*—These were not many in fatal cases, as they succumbed early :—Parotitis single in 9 cases ; Parotitis double with suppuration in 1 ; Re-suppression of urine, in 26 ; miscarriage and abortion in 6 cases.

Among the patients who recovered, they were as follows :—Parotitis in 15 cases ; Re-suppression of urine in 16 ; Pneumonia in 10 ; Cholecystitis in 6 ; Hæmaturia in 6 ; Miscarriage and abortion in 4, and Epilepsy in 1.

Besides the above, Mixed Infectious were observed as follow:—In 3 cases cholera attacked patients suffering from acute malaria; in 2 from measles. In 15 cases it developed patients during the apyrexial stage of Relapsing Fever, and when a relapse occurred during convalescence from Cholera, the *Spirillum* was observed in the blood.

21. *Racial Fatality*.—The incidence of Cholera falls in varying degrees upon the different classes of population; and it as well affects their fatality. Fewer European, Anglo-Indian and Parsee cases were treated and their rate of mortality was extremely low, being 27.2 and 25.0 per cent. respectively. On the other hand, the admission of Hindoos was preponderatingly high and their mortality rate was 42.5 per cent., it was about the same among native Christians. Mohamedans had a slightly higher rate. The following statement compares the rate of mortality among all admissions from 1910-1916:—

Races.	Admissions.	Deaths.	Recoveries.	Case mortality rate per cent.
Hindoos	552	235	317	42.5
Mussalmans	175	78	97	44.5
Christians	88	37	51	42.0
Parsees	32	8	24	25.0
European and Anglo-Indians ..	22	6	16	27.2
Jews	5	4	1	80.0

22. *Treatment*.—The line of treatment adopted was the same as described in the previous reports, supplemented by Pituitrin, Atropin and Caffein, or Theobromin Sodium Salicylate as adjuncts in suitable cases. Subcutaneous injections (1 to 2 pints) of hypertonic saline were extensively resorted to in all cases of grave collapse with satisfactory results, while rectal injections were confined to comparatively or rather apparently mild cases only. The former comprised a series of 251 cases, with 95 deaths and 156 recoveries, equivalent to a case mortality rate of 37.8 per cent. Rectal injections were used in 68 cases with 12 deaths and 56 recoveries, the rate of case mortality was therefore 17.6 per cent.

It will thus be noticed that the alterations made in the line of treatment from time have had beneficial results as indicated by a marked and steady fall in the rate of mortality and consequent increase in the recovery rate:—

Periods.	Admissions.	Recoveries per cent.
1893-1904	930	25.00
1905-1909	687	47.00
1910-1912	547	52.30
1913-1916	327	67.30

The average recovery rate for the last four years has been 67 out of every 100 cases treated and considering that nearly 90 per cent. of admissions were in the stage of collapse, it should be looked upon as extremely satisfactory.

23. The Hospital Nursing staff, both permanent and temporary, worked diligently and with zeal, especially Mrs. Baker and Mrs. Broad, and the male under-nurse Mr. Patell; the resident Hospital assistant, Mr. A. DeSilva, was indefatigable as usual and Messrs. Bhowsar, Kale and Noronha were energetic in their duties.

Report of the Maratha Plague Hospital for the year 1916.

I.—ADMINISTRATION.

1. The changes in the staff are referred to in the Annual Report of the Arthur Road Hospital. One post of a nurse was not filled up after the transfer of nurse Mrs. Broad to the Arthur Road Hospital as work was comparatively light.

II.—GENERAL STATISTICS.

2. The total number of admissions was 883 as compared with 161 and 466 during 1915 and 1914 respectively.

3. The principal admissions were from Plague 411, Mumps 144, Chicken-pox 65, Jigger 57, Measles 29 and observation cases 165.

4. The Maratha Hospital had to admit cases other than plague owing to the heavy demand upon the resources of the Arthur Road Hospital consequent upon the Small-pox epidemic.

5. The following statement shows the details of admissions, deaths and recoveries and case mortality rate per cent. among the above admissions :—

Diseases.	No.	Died.	Recover- ed.	Case mortality per cent.
Plague	411	319	92	77.23
Mumps	144	1	143	0.69
Chicken-pox	65	..	65	....
Jigger	57	..	57	....
Measles	29	2	27	6.89
Erysipelas	7	1	6	14.28
Cholera	4	2	2	50.0
Relapsing Fever	2	..	2	....
Typhus Exanthematus	1	..	1	....
Observation cases	163	16	147	9.81

6. *Military patients.*—Such of the Indian troops and followers suffering from infectious diseases as could not be accommodated at the Arthur Road Hospital, were treated at this hospital, the total number was 186. The cases were distributed under the following diseases :—

Diseases.	No.	Died.	Recovered.
Mumps	101	....	101
Jigger	57	....	57
Chicken-pox	9	....	9
Plague	6	1	5
Cholera	4	2	2
Relapsing Fever	2	....	2
Measles	1	....	1
Typhus Fever	1	....	1
Observation cases	5	....	5

The fees recoverable from Government for the treatment of the above cases amounted to Rs. 4,000-8-0.

7. There were 163 cases admitted under observation of whom 16 died and 147 recovered ; the case mortality rate being 9·81.

8. The other diseases caused very little fatality, as there was but one death among 144 cases of Mumps and 2 deaths among 4 Cholera patients. All the patients suffering from Jigger recovered and the case of Typhus which was quite characteristic made a good recovery. Among the two cases of Relapsing Fever who recovered one case was complicated with a mixed infection of Mumps and Relapsing Fever.

9. Plague admissions numbered 411 which was a big rise compared to 135 in 1915. It almost approximated the admissions numbering 440 in 1914, and 1910. The rate of case mortality was 77·23 per cent. about equal to that of the year 1910, but higher than in 1914 and 1915.

III.—TREATMENT OF PLAGUE.

10. A few observations were made to treat plague with colloidal preparations of mercury and silver. Owing, however, to the limited amount of the preparations available and the smaller doses employed, the results were scarcely encouraging. Colloidal mercury was used in 12 cases and was administered subcutaneously near the buboes in doses of about 1 c.c. daily from 3 to 4 days after admission. Nine cases died and three recovered. Colloidal silver was similarly used among 4 patients with 3 deaths and 1 recovery. The observations were too limited to allow of any conclusion, but it was noted that the injections hardened the buboes, lessened the pain and checked further increase even in cases that were septicæmic that eventually succumbed. On the other hand, the cases that recovered were probably sterile. The effects of the injections were well marked and general and local improvement became manifest after two to three injections. Further observations with the above as also with Colloidal Iodine will be made during the epidemic of 1917. Our present knowledge of the disease however forbids any hope of good results accruing from a purely bactericidal treatment, whether with drugs or a bactericidal serum, unless the infection is localised, or an antitoxic serum is combined with such treatment.

N. H. CHOKSY, M.D., F.C.P.S.,

Special Assistant Health Officer,

In charge, Maratha Plague Hospital.

Report on Malaria Operations for the year 1916.

I have the honour to submit my fifth annual report on anti-malaria work done during 1916.

2. Measures for gauging the incidence of malaria were continued during the year.

(1). Examination of Spleen :—Visits were paid to houses and Municipal and aided primary Schools and children examined for spleen. The results are embodied in the following table :—

Ward.	Section.						Total No. of children examined.	No. with enlarged spleen.	Percentage by Sections.	Percentage by Wards.
A	{ Colaba (Upper)...						215	20	9.30	7.83
	{ Middle & Lower Colaba						30	...	0.00	
	{ Fort Southern ...						2	...	0.00	
	{ Fort Northern ...						317	17	5.36	
	{ Esplanade ...						381	57	9.71	
	Total ...						945	74	7.83	
B	{ Mandvi ...						220	7	3.18	3.37
	{ Chukla ...						319	12	3.76	
	{ Umarchadi ...						384	8	2.08	
	{ Dongri ...						289	4	1.38	
	{ Market ...						358	22	6.14	
	Total ...						1,570	53	3.37	
C	{ Dhobi Talao ...						569	22	3.86	2.38
	{ Fanaswadi ...						379	11	2.90	
	{ Bhuleshwar ...						830	12	1.44	
	{ Khara Talao ...						274	9	3.28	
	{ Kumbharwada ...						459	6	1.13	
	Total ...						2,511	60	2.38	
D	{ Khetwady ...						436	6	1.37	2.55
	{ Girgaum... ..						591	8	1.35	
	{ Chowpati ...						243	11	4.52	
	{ Walkeshwar ...						275	11	4.00	
	{ Mahalakshmi ...						370	13	3.51	
	Total ...						1,915	49	2.55	
E	{ Mazagon ...						425	21	4.94	5.54
	{ Tarwadi ...						648	86	13.94	
	{ 2nd Nagpada ...						234	5	2.13	
	{ Kamatipura ...						383	11	2.87	
	{ Tardeo ...						600	20	3.33	
	{ Byculla ...						909	36	3.96	
	{ 1st Nagpada ...						84	3	3.57	
	Total ...						3,231	182	5.54	
F	{ Parel ...						78	11	14.10	4.90
	{ Sewri ...						150	3	2.00	
	{ Sion ...						180	6	3.33	
	Total ...						408	20	4.90	
G	{ Mahim ...						188	5	2.65	2.65
	{ Worli ...						...	...	...	
	Total ...						188	5	2.65	
	Total ...						10,818	443	4.09	
	Outside Bombay ..						12	1	8.33	
	Grand Total ...						10,830	444	4.09	4.09

3. In the case of a healthy area, the average spleen rate amongst children is not above 10 per cent. It will be seen from the table that Upper Colaba (9·30), Fort North (5·36), Esplanade (9·71), and Tarwady (13·94) sections showed comparatively high spleen rates. The decline in the spleen rates in Fort North and Esplanade is indicated by the following figures :—

Sections.	1909.	1913.	1915.	1916.
Fort North	49·44	15·27	10·19	5·36
Esplanade	73·38	15·63	7·52	9·71

4. As regards Tarwadi, the higher spleen rate is due to (1) the general low-lying condition of the section ; (2) Many low-lying plots of ground wherein water collects in the rains ; (3) Its proximity to the Bhandarwada Reservoir where the filters breed larvæ of *Neocellia Stephensi* ; (4) the two Orphanages which it contains, the spleen rate in the Lady Northcote Hindoo Orphanage being 27·58 with a large number of children coming from Guzrat, Kathiawar and other Malarious places and (5) many plots being under cultivation with very large wells.

5. The spleen rate for the whole city was 4·09 against 2·74 in 1915, 6·75 in 1914 and 5·87 in 1913.

6. The following table shows the spleen rate by castes in 1916 and the preceding two years:—

CASTES.	Total No. of children examined.	No. with enlarged spleen.	Percentage.		
			1914.	1915.	1916.
Hindus	8,680	367	6·59	2·53	4·22
Mahomedans	1,816	64	5·40	2·69	3·52
Parsees	38	2	9·55	7·71	5·26
Christians	272	11	8·47	5·66	4·04
Jews	24	...	6·34	3·41	0·00

7. *Random Sampling* :—The parasite rate by wards and sections was as under :—

Ward.	Sections.	Month.	No. examined.	Parasites found in.	Percentage.
A	Esplanade	January and May ...	270	1	0·37
	Fort North	June	75	0	0·00
D	Khetwadi	October	60	0	0·00
	Girgaum	"	68	0	0·00
E	Chowpati	February	100	0	0·00
	Mazgaon	August	50	0	0·00
	Tarwadi*	July, September and November.	289	14	4·84
	Byculla	March	100	1	1·00
	Total ...		1,012	16	1·58

* Includes children of the Lady Northcote Hindu Orphanage.

8. The District Registrars sent 187 specimens of blood of patients suffering from fever with following results :—

District No.	No. of slides sent.	No. in which parasites were found.	Percentage.
District Registrar No. 1	34	4	11·76
" " 3	2	<i>Nil.</i>	0·00
" " 5	134	18	13·43
" " 8	17	4	23·53
Total ...	187	26	13·90

9. The result of the spleen and parasite rates of the temporary chals of the C. I. Trust near Carnac and Paltan Roads was as under :—

—	1909.	1912.	1913.	1914.	1915.	1916.
Spleen rate ...	56	36.00	18.01	14.89	8.33	8.42 (May) 13.58* December.
Parasite rate ...	40	19.17	3.12	4.44	1.17	0.00

* Due to fresh arrivals from Up-country.

10. *Mortality from Malaria* :—The total number of deaths from Malaria during the year was 238 compared with 208 in 1915 for the entire City—it includes 23 deaths in the War Hospitals in the City and 53 among the homeless.

11. The following table shows the spleen and parasite rates and malarial mortality by wards for the last five years.

Ward.	Spleen Rates.					Parasite Rates.					Mortality from Malaria.				
	1912.	1913.	1914.	1915.	1916.	1912.	1913.	1914.	1915.	1916.	1912.	1913.	1914.	1915.	1916.
A ...	33.50	15.87	12.32	6.95	7.83	10.54	2.98	2.51	0.76	0.37	91	65	51	37	58
B ...	15.03	3.18	6.31	3.45	3.37	3.01	3.89	1.42	0.60	0.00	101	47	25	32	32
C ...	9.99	4.89	5.50	2.91	2.33	14.14	1.88	1.38	0.00	0.00	58	53	42	23	39
D ...	3.90	3.41	5.77	2.81	2.55	0.00	0.00	1.86	0.00	0.00	22	34	22	18	34
E ...	11.40	4.96	4.56	5.26	5.54	7.97	5.45	1.58	2.89	3.41	56	47	45	50	46

12. *Chemical Analysis of Water* :—47 samples of well water were chemically analysed by the Municipal Analyst during the year ; out of these 14 were found fit for potable purposes.

13. Free distribution of quinine Hydrochloride Tabloids was continued. The District Registrars, Sub-Registrars, Nurses and Malaria Inspectors and Sub-Inspectors distributed the tabloids by house to house visits during the fever season. The quantity thus distributed was :—

2 grains Tabloids	..	..	..	..	..	..	..	8,500
4 " "	..	..	..	..	..	..	..	9,690

470 specimens of anopheles larvæ were examined in this office and tabulated as under :—

Neocellia stephensi	..	..	..	..	..	..	79
Nysso-Myzomyia rossi	..	..	..	..	..	..	415
Nyssorhynchus jamessi	..	..	..	..	..	..	1
Myzorhynchus barbirostris	..	..	..	..	..	..	13
Myzomyia culcifacies	..	..	..	..	..	..	2

14. 288 samples of larvæ of anopheles, culex and stegomyia were sent to the Director, Bombay Bacteriological Laboratory for his information.

15. *Protection of breeding places* :—Nanabhoy Tank (Municipal) in Mazagaon was filled in during the year.

The tank in Gold Moher Castle was filled in by the owner ; also that in China Bag (Girgaum Road) and the tank attached to the Thakurdwar Temple ; while that attached to a temple on Ghorupdeo Road has been covered over with a trapdoor attached.

The large pit on Lamington Road is being filled in. The extensive low-lying plots of land between Foras and Bellasis Roads have been filled in ; so also those behind the Maratha Hospital belonging to the B. D. Petit Trust and the Collector of Bombay.

16. Action was also taken in regard to cisterns and road watering carts (by closing up the mouths with tarpaulin during monsoon months when they are not used), and fire-buckets in public buildings.

17. Out of 3,445 wells in A, B, C, D and E Wards, 604 have been filled in, and 2,448 protected out of the remaining 393 :—

142 Are under fish trial.

76 Under correspondence.

15 Work to be done by Municipal Agency.

12 Under Notice.

2 In Court.

146 Not breeding.

18. The following table shows the number of prosecutions for wells and tanks instituted and their results :—

Years.	Total No. of prosecutions instituted.	Nos. complied with, withdrawn and acquitted.	Nos. convicted and fined.	Amount of fine.	Percentage of convictions to the No. of cases heard.	Remarks.
				Rs. a. p.		
1912 ..	99	79	13	134 0 0	14.34	7 cases postponed to next year.
1913 ..	389	296	45	479 0 0	13.19	55 Do. do.
1914 ..	226	228	32	434 0 0	12.30	21 Do. do.
1915 ..	101	85	13	230 0 0	13.26	3 Do. do.
1916 ..	56	44	10	195 0 0	17.85	2 Do. do.
Total ..	871	732	113	1,472 0 0	12.97	2 Do. do.

19. *New wells* :—Although facilities are given for sinking new wells on certain conditions, people in spite of warnings, sink wells without permission. Three offenders in this respect were prosecuted in 1916, two of them were convicted and fined Rs. 5 and the third acquitted.

20. *Wadala Dye Pits* :—This area (Wadala) is on Sewree Cross Lane and is undrained. The result is that the dye-pits which exist there breed larvæ of mosquitoes. The owners objected to fill in these pits on the ground that owing to absence of drainage these pits were necessary. The Municipal Commissioner decided to leave the dye-pits alone for the present, as ultimately when the neighbourhood has grown more populous the proper course will be to remove them bodily—either outside the island or to that portion of C. I. T. Scheme which is to be reserved for factories and industrial concerns.

21. *Sewri Wells* :—In this locality which is close to the dye-pits, there are about 20 wells facing the Dispensary and the new residential quarters provided by the Port Trust. As these wells breed larvæ of mosquitoes, action has been recently started to protect them.

22. *Low-land* :—In close neighbourhood of the above are large tracts of low-land and action to fill in these is running.

23. *Malabar Hill Reservoir and Filters* :—The doors, windows and ventilators in the Filter were protected with wire-gauze, but the gauge corroded and the whole arrangement is now non-mosquito-proof with the result that the filters are breeding larvæ of *Neocellia Stephens* mosquitoes.

24. The Bhandarwada Filters which are quite open also breed larvæ of mosquitoes.

25. The Malaria Committee having asked for a report as to “the manner in which malarial measures are being carried out and the policy that should be laid down for the future,” a full report was made to the Municipal Commissioner by the Executive Health Officer which need not be included here.

26. Owing to financial stringency the Government Grant for Malaria work was restricted to Rs. 5,000 for 1916-17.

27. I worked as Junior Assistant to the Health Officer in addition to my own duties from 5th April 1916 to 22nd November 1916 while the Executive Health Officer was on leave.

28. The Inspectorial staff during the year consisted of 4 Inspectors and 28 Sub-Inspectors.

29. The Malaria Staff both Clerical and Outdoor worked satisfactorily.

30. The following table shows the number of Wells protected upto the end of December 1916.

Ward.	Section.	Total No. wells.	No. of wells filled in.	No. of wells hermetically covered.	No. of wells hermetically covered and hand pumps fixed.	No. of wells covered leaving Trap-doors.	No. of wells covered leaving trap-doors and hand pumps attached.	Wells under fish trial.	Wells under correspondence.	No. in which work is being done by Municipality.	Under Notice.	In Court.	Not breeding.
A	Fort North..	542	84	134	11	271	9	18	..	2	1	..	12
	Fort South..	54	16	18	8	7	4	1	..	..	..	..	..
	Esplanade ..	70	16	17	6	17	5	..	..	7	..	..	2
	Colaba	65	19	16	3	19	2	4	..	..	..	..	2
	Total ..	731	135	165	28	314	20	23	..	9	1	..	16
B	Market ..	269	22	67	34	106	16	11	4	..	..	..	7
	Chukla ..	77	27	25	7	11	3	2	..	..	..	..	2
	Mandvi ..	75	15	7	6	30	8	1	1	..	..	..	5
	Umarkhadi..	49	20	12	3	8	5	..	1	..	..	..	..
	Dongri.. ..	14	10	..	2	..	1	..	..	..	..	..	1
	Total ..	484	94	111	54	155	35	14	6	..	..	..	15
C	Dhobi Talao	411	35	76	19	236	17	20	1	..	..	..	7
	Fanaswadi ..	253	19	30	21	116	19	32	3	2	3	..	8
	Bhuleshwar..	176	13	37	16	56	14	6	11	..	2	..	19
	Kumbharwada.	50	14	7	7	16	1	2	1	1	..	..	1
	Khara Talao.	11	3	1	1	3	..	1	..	..	..	2	..
	Total ..	901	84	151	64	427	51	63	16	3	5	2	35
D	Khetwadi ..	230	45	52	18	63	9	6	3	..	1	..	10
	Girgaum ..	332	52	81	14	136	23	8	..	..	1	..	18
	Chowpati ..	160	38	35	12	40	13	5	4	..	1	..	2
	Walkeshwar	134	27	13	10	36	11	6	6	..	..	..	23
	Mahalakshmi (upper).	93	14	10	7	29	5	5	10	..	..	..	13
	Total ..	939	179	191	61	335	61	30	23	..	3	..	66
E	Mazagon ..	96	27	11	7	22	5	5	15	1	1	..	4
	Tarwadi ..	116	23	21	7	34	8	4	10	2	1	..	6
	Byculla ..	78	34	14	7	14	3	1	4	..	..	..	1
	1st Nagpada.	2	1	1	..	..	..	..	..	..	..	..	..
	2nd Nagpada.	6	1	3	4	..	..	..	..	..	..	..	..
F	Kamathipura.	8	4	3	..	1	..	..	..	..	..	..	..
	Tardeo ..	34	5	6	2	14	2	1	1	..	..	..	1
	Lower Mahalakshmi.	46	17	10	3	10	1	1	1	..	1	..	2
	Total ..	390	112	71	30	95	19	12	31	3	3	..	14
	A-E. Wards Total.	3,445	604	709	237	1,316	166	142	76	15	12	2	146
G	Parel ..	95	20	9	2	4	..	50	9	..	1	..	..
	Sewri ..	112	3	2	1	1	..	96	7	..	..	..	..
	Sion ..	325	21	..	1	10	3	281	9	..	..	..	..
	Total ..	532	44	11	4	15	3	429	25	..	1	..	..
G	Mahim ..	546	20	8	2	5	..	80	35	..	..	..	396
	Worli ..	362	16	5	3	5	..	54	23	1	..	..	253
	Total ..	908	38	13	5	10	..	134	58	1	..	..	649
Grand Total ..		4,885	696	733	246	1,341	189	705	150	16	13	2	795

31. Statement showing Summary of Work done during 1916, and also from beginning up to the year 1916.

	1916.	Total from the year 1912 up to 31st December 1916.
No. of wells filled in	68	642
No. of wells hermetically covered	36	1,027
No. of wells covered with Trap-doors	78	1,526
No. of wells, etc., in which sanction of the Standing Committee or Municipal Commissioner was received	113	1,356
No. of houses inspected by the staff (including repetitions)	184,978	949,209
No. of notices issued re : cisterns, etc.	430	2,688
No. of cisterns hermetically covered	810	8,547
No. of children examined for spleen	30,325	85,376
No. of blood slides examined	1,199	6,821
No. of larvæ samples classified	470	8,485
No. of Lectures delivered	3	29
Quantity of Quinine distributed	18,190	158,350
Grs. II	8,500	46,700
Grs. IV	9,690	111,650
No. of pools treated with pesterine	28,717	148,646
No. of odd receptacles removed	12,111	22,230

K. B. SHROFF, L.M. & S., D.P.H., D.T.M.,

Special Assistant to the Health Officer,
Malaria.

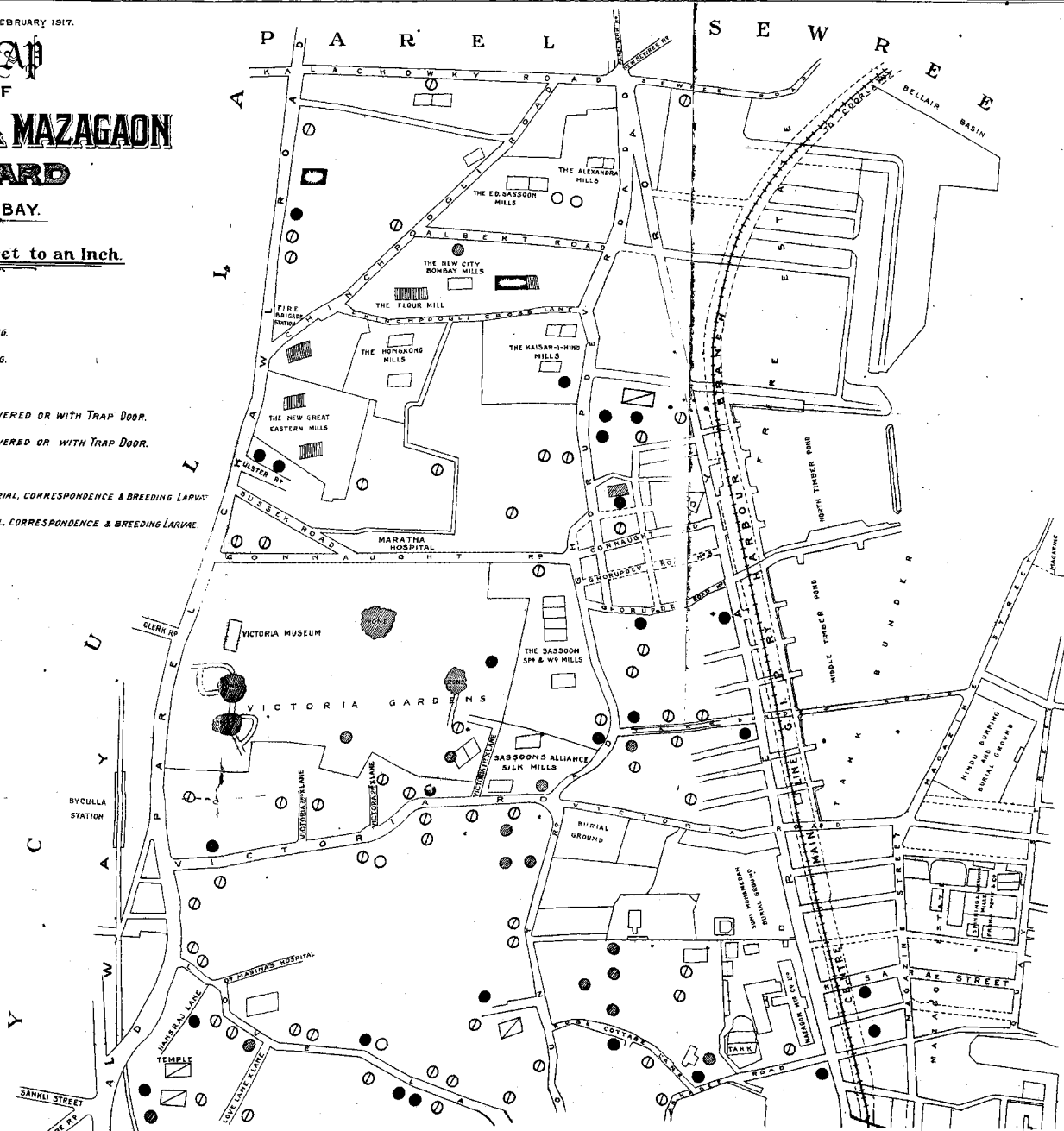
BOMBAY 17 FEBRUARY 1917.

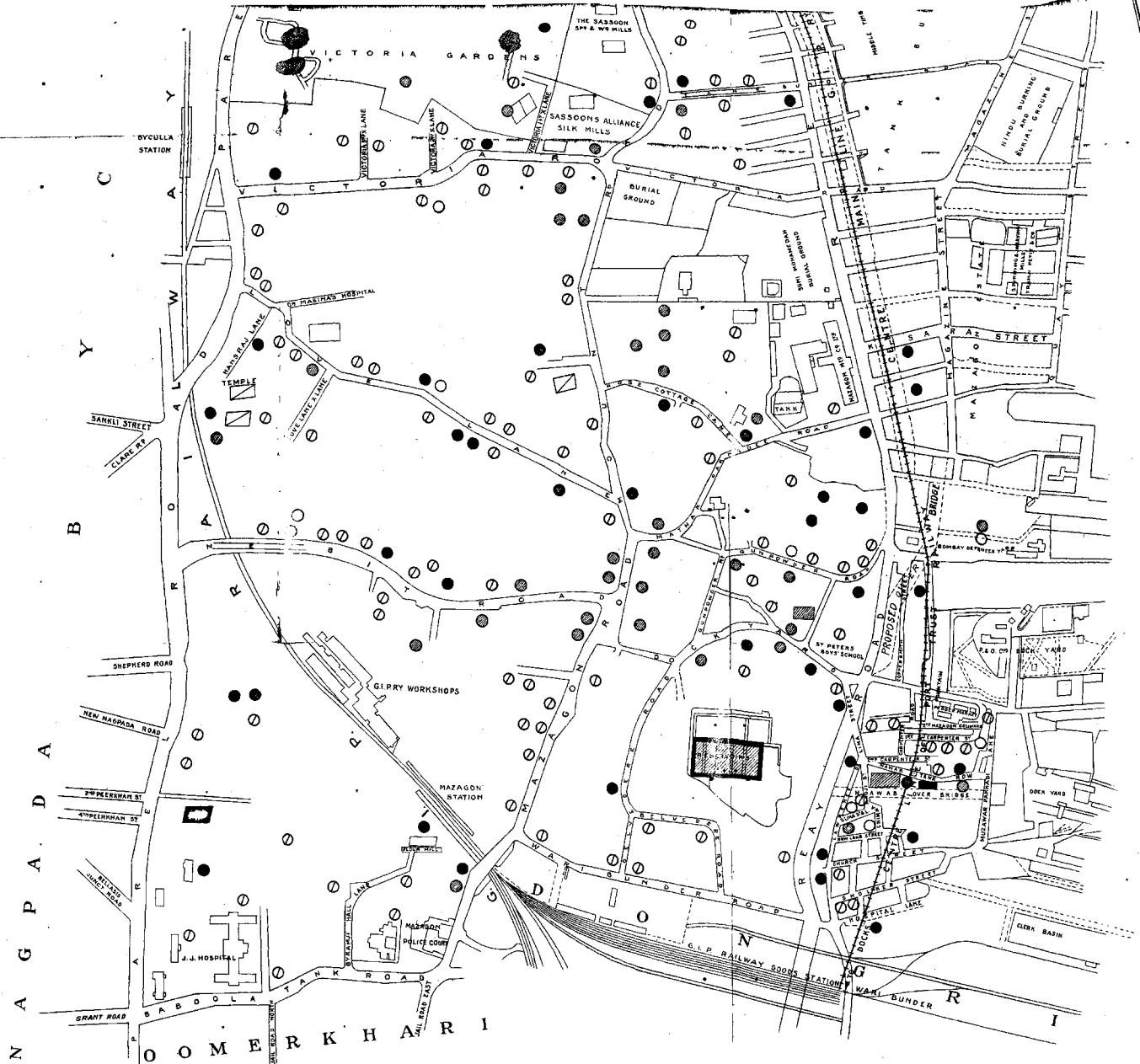
MAP OF TARWARI & MAZAGAON L. WARD

BOMBAY.

Scale 400 Feet to an Inch.

- OPEN WELL & NOT BREEDING.
- OPEN TANK & NOT BREEDING.
- WELL FILLED IN.
- ⊙ WELL HERMETICALLY COVERED OR WITH TRAP DOOR.
- ▣ TANK HERMETICALLY COVERED OR WITH TRAP DOOR.
- TANK FILLED IN.
- ⊙ OPEN WELL UNDER FISH TRIAL, CORRESPONDENCE & BREEDING LARVAE.
- ▣ OPEN TANK UNDER FISH TRIAL, CORRESPONDENCE & BREEDING LARVAE.





Report of the Analytical and Bacteriological work done in 1916.

I have the honour to submit herewith the following report of work done in the Municipal Laboratory, during the year 1916.

Dr. J. S. Nerurkar, B.Sc., L. M. & S., D.P.H., Superintendent of Vaccination, acted for me Personnel. during the months of May and June, when I was on privilege leave.

During the period under report, 6,137 samples were examined—1,909 chemically and 4,228 bacteriologically*—showing a decrease of 2,812 and 282 samples over those examined during 1914 and 1915 respectively. This apparent decrease is chiefly due to the fact that the Special Research Work in connection with milk has been entirely discontinued as it was considered advisable to economise on account of the abnormal prices of chemicals and scientific apparatus at the present time. There has been no appreciable decrease in the number of routine samples examined, except in the case of well waters. Special Research work in connection with butter and ghee has been undertaken on a small scale at present but may have to be stopped on account of shortage of apparatus and chemicals.

General.

The following is a brief summary of the *General Work*.

Chemical

Total number of samples analysed : 1909.

The chemical analysis includes the following :—

- (a) Examination of Food stuffs of various kinds ;
- (b) „ „ Public Water Supply and other water samples ;
- (c) „ „ Drugs, Disinfectants, and Chemicals ;
- (d) „ „ Urine for diagnostic purposes ;
- (e) „ „ Miscellaneous samples, such as lead, &c., &c.

Food Stuff.

(a) The total number of *Food Stuff*s examined was 1,058, as detailed below :—

Food-stuffs.

Food stuff.	Genuine.	Fair.	Examined for Preser- vations.	Not Genuine.	Doubtful.	Skim milk.	Total.
Milk	453	1	65	280	17	1	818†
Butter	3	1	..	..	..	..	4
Ghee	7	2	..	12	..	..	21
Oil	5	7	..	1	..	..	13
Aerated water	..	..	..	..	..	..	3
Tea	1	5	..	7	..	..	13
Coffee	2	2	..	2	..	..	6
Vinegar	..	1	..	..	..	..	1
Flour	34	..	..	..	..	..	34
Total ..	505	19	65	302	17	1	913

In connection with Research Work butter and ghee 123
Examined for the Storekeeper for comparison with Standard
samples of oil 22

Total .. 1,058

Milk for legal purposes.

The total number of milk samples received was 817 (excluding the one received in a decomposed state) of which 625 were examined for legal purposes : 222 were found to be adulterated with water—giving a percentage of 35.5 for adulterated samples. The amount of extraneous

Milk.

* Examination for each kind of microbe being reckoned as one sample, as hitherto.

† Includes one sample received in a state of decomposition.

water varied from 5 per cent. to 68 per cent. Legal proceedings were taken in 167 cases; the fines imposed by the Magistrates ranged from Rs. 1 to Re. 100, the samples according to Wards being as follows :—

WARD.	No. of prosecutions.	No. of prosecutions in which Offenders were punished.	REMARKS.
A ..	10	10	Fines ranging from Rs. 5 to Rs. 50.
B ..	5	5	" " " Rs. 10 to Rs. 30.
C ..	7	7	" " " Re. 1 to Rs. 45.
D ..	12	12	" " " Rs. 15 to Rs. 50.
E ..	23	22	" " " Re. 1 to Rs. 75; one case was warned and discharged.
F ..	50	44	" " " Rs. 5 to Rs. 100; 4 absconded; 2 pending.
G ..	60	55	" " " Rs. 5 to Rs. 100; 5 absconded.
Total ..	167	155	

Waters.

(b) *Waters.*

337 samples of waters were analysed as follows :—

Source.	For potable purposes from a chemical point of view only.					Total.
	Fit.	Fair.	Unfit.	Objectionable.	Suspicious.	
Public supply	14	14	15	2	2	287
Wells	1	1	1	1	1	47
Storage tanks	1	1	1	1	1	1
Tanks	1	1	1	1	1	1
Not specified	1	1	1	1	1	1
Total ..	15	14	16	2	3	337

Drugs, Disinfectants,
&c.

(c) *Drugs, Disinfectants, and Chemicals.*

In this connection, 17 samples were examined, such as Carbon-bi-sulphide, Sulphur, Carbolic acid powder, Zondo disinfecting powder, Quinine, Extract of Renalglandin, &c.

(d) *Urine for diagnostic purposes.*

Urine

479 samples of urine were examined for diagnostic purposes, of which four were examined for the Municipal Maternity Home and two for the Arthur Road Hospital.

Miscellaneous.

(e) *Miscellaneous samples, 18.*

1 sample of *sediment of water* for microscopic examination.

6 samples of *Lead* for finding out per cent. of lead.

1 sample of *deposit from meter hydrants* for finding out a solvent.

1 " *" Stuff "* collected at Tardev Flats.

1 " *silt* found in a drain for poisonous gases.

1 " *Kerosine oil* for flash point.

3 samples of *Bees Wax*.

4 " *Soap*.

II—BACTERIOLOGICAL.

*Total number of samples examined, 4,228.**

This consisted of the examination of :—

- (a) Food stuffs.
- (b) Public water supply and other waters.
- (c) Specimens obtained of animals at Victoria Gardens for Tuberculosis.
- (d) Glycerinated Vaccine.
- (e) Blood, sputum, urine, stools, &c., &c., for diagnostic purposes.
- (f) Disinfectants.
- (g) Fleas, &c., for B. Pestis.
- (h) Miscellaneous samples.
- (a) *Food stuffs.*

Food Stuffs.

The total number of samples of Food stuffs examined was 1068, as follows :—

Milk.

- 153 samples for microbes per c.c.
- 153 „ „ lactose fermenters.
- 170 „ „ B. Typhosus.
- 153 „ „ B. E. Sporogenes test.
- 153 „ „ B. Coli.
- 6 „ „ Diphtheria.
- 45 „ „ Cholera vibrio.
- 151 „ „ Other microbes.
- 1 sample for sterility.
- 1 „ of sour milk.
- 2 samples of milk sediment.

Cream.

- 1 sample for cholera vibrio.

Butter.

- 5 samples for cholera vibrio.
- 68 „ „ putrescibility.

Bread, etc.

- 1 sample for B. Typhosus.
- 5 samples of "Eatables" for cholera vibrio.

- (b) *Public water supply and other water samples.*

Waters.

1,437 samples of Public Water supply were examined as follows :—

- 195 samples for Microbes per c.c.
- 296 „ „ Cholera vibrio, with negative results.
- 169 „ „ B. Typhosus „ „ „
- 195 „ „ B. Coli (Houston's) ; 138 with positive results.
- 195 „ „ Lactose fermenters with varying results.
- 195 „ „ B. E. Sporogenes test with negative result.
- 192 „ „ Streptococci „ „ „

The average number of microbes per c.c. for the last five years (1912—1916) is as follows :—

Unfiltered Tulsi	..	..	..	..	..	..	..	782
Filtered Tulsi	..	..	..	..	..	..	..	232

Mixed Tulsī filtered and Tansa unfiltered	..	..	..	..	404
Unfiltered Vehar	..	..	..	..	773
Filtered Vehar	..	..	..	..	237
Dongri stand pipe water	..	..	..	..	419
Tansa water public stand pipe	..	..	..	..	400
„ „ 48" air valve	..	..	..	..	386

Other Waters.

7 samples from wells for cholera vibrio with negative results.

9 „ not specified for „ „ „ „

3 „ from wells for *B. Typhosus* with negative results.

(c) *Examination of specimens obtained of animals at Victoria Gardens for Tuberculosis.*

Post mortem examination was made at the Bullock Hospital on eleven animals (8 spotted deers, 2 lamas, 1 sambhar) which were suspected of Tuberculosis. Eight specimens of Lungs, &c., were examined for tuberculous lesions and Tubercle Bacilli were detected in two specimens only.

(d) *Glycerinated Vaccine.*

Vaccine. 1,272 capillary tubes were examined for the Superintendent of Vaccination for the presence of extraneous micro-organisms the results have been reported through the Executive Health Officer from time to time.

Blood & Sputum, &c. (e) *Blood Sputum, Urine, Stools, &c, &c., for diagnostic purposes* .. 353 samples.

Blood.

Malarial Parasites	..	..	..	..	..	..	13
Widal's test (Enteric)	..	..	..	..	..	..	1
Cholera vibrio	..	..	..	..	..	..	2

Sputum, &c.

Swab for Diphtheria	..	..	..	..	..	..	4
Tubercle Bacilli	..	..	..	..	..	..	26

Urine.

Tubercle Bacilli	..	..	..	..	..	..	1
Cholera vibrio	..	..	..	..	..	..	2
Gonococci	..	..	..	..	..	..	9

Stools for Cholera.

Stools for cholera vibrio	..	..	..	..	..	..	294
---------------------------	----	----	----	----	----	----	-----

Cholera vibrio detected in 86 samples.

Vomit.

For cholera	..	..	..	..	..	..	1
-------------	----	----	----	----	----	----	---

(f) *Disinfectants, &c.*

Disinfectants. 22 samples such as Zondo, Izal, Paraffin-gas oil, Pesterine, &c., were examined in this connection : Izal and Zondo for determining the bactericidal power on *B. Coli* and to compare with the standard samples with the exception of two samples for comparison. Liquid fuel, Paraffin-gas oil, and Pesterine were examined as to their effects on mosquito larvæ and fleas.

(g) *B. Pestis.*

B. Pestis from fleas, etc. 31 samples of fleas obtained from guinea pigs and 11 specimens obtained from post mortem of guinea pigs were examined and *B. Pestis* was isolated in two latter samples.

(h) *Miscellaneous samples.. 7.*

Miscellaneous.

2 swabs from nose.

2 eye discharges.

1 swab Lochial discharge.

1 lint for sterility.

1 tow „ „

III—CENTRAL DISINFECTION DEPOT NORTHBROOK GARDENS, GRANT ROAD.

C. D. Depot.

The usual work of preparation and issue of Rat-poison and of Mercurial Solution was carried on.

Rat-poison.

Rat-poison.

By balance on 1st January 1916 11 Jars.

Prepared 126 „

Total 137 Jars.

Issued 116 „

By balance on 1st January 1917 21 Jars.

Mercurial Solution.

Mercurial Solution.

By balance on 1st January 1916 Nil.

Prepared 225 Jars.

Total 225 Jars.

Issued 196 „

By balance on 1st January 1917 .. 29 Jars.

Research Work.

Research Work in connection with butter and ghee.

As stated in my last Report (1915) the research work in connection with milk has been discontinued long since. A systematic investigation regarding local butter and ghee has been undertaken on a small scale during the year under review, but the work has had to be considerably curtailed for economic reasons. The research regarding ghee, it is hoped, will be continued next year, and when concluded, will be reported. In the meantime, it may be stated that 45 samples of ghee were prepared (from milk) in the laboratory and then subjected to complete analysis. This has been done with a view of studying the composition of genuine ghee and establishing local standards if possible.

As regards Butter, 43 samples were examined physically and chemically and also 55 bacteriologically with regard to its putrescibility. Boric acid had been detected as a preservative in butter obtained from dairies.

The effects of war are being felt in the laboratory with reference to supplies from Europe. Most of the important apparatus and chemicals ordered from England in April 1915 and subsequently has not arrived as yet. There is therefore considerable shortage of several articles required for analytical work. Every attempt is being made to conserve the supplies and to exercise the utmost economy in the use of expensive chemicals. In spite of the abnormal conditions existing during the last two years I am glad to report that considerable saving has been effected in the laboratory maintenance charges, as well as in the grant for books, &c.

Effects of War

The pressing need of the laboratory is more *space* particularly for a balance room, a store room, and a room for clerical work.

Needs, &c.

I am glad to put on record once more my appreciation of the good work done by my assistants and by the other staff of the laboratory.

LEMUEL LUCAS JOSHI, M.D., B.Sc., F.C.S., &c.,

February 12th, 1917.

Municipal Analyst.

STATEMENT OF ARTICLES EXAMINED CHEMICALLY DURING THE YEAR 1916.

64

Received from	Milk.	Butter.	Ghee.	Oils.	Romday Waters.	Storage Tank Waters.	Well Water.	Tank Water.	Aerated Water.	Water.	Sediment of Water.	Tea.	Coffee.	Vinegar.	Flour.	Drugs.	Chemical.	Lead.	Deposit for Solvent.	Disinfectant.	"Spill" collected at Tardoo Pits.	Slit found in a drain.	Research Sample.	Kerosine Oil.	Urine.	Soap.	Bees' Wax.	TOTAL.
Executive Health Officer	2	..	2	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	11	1	1	..	..	..	..	20
Assistant Health Officer, Arthur Rd. Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..	..	1	..	..	7
Municipal Analyst	185	..	..	..	192	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	123	..	..	..	..	500
Assistant Health Officer, Malaria	..	..	..	..	..	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7
Lady Doctor, Maternity Home	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	4
Deputy Health Officer, A Ward	121	..	1	8	1	..	0	..	..	..	..	5	5	..	18	..	..	..	..	..	..	..	..	..	..	..	..	108
" " B	37	..	6	..	..	..	1	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	..	..	..	..	54
" " C	93	..	..	..	..	..	16	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	110
" " D	73	..	..	..	6	1	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	86
" " E	122	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	125
" " F	79	1	8	4	..	..	3	..	2	..	..	4	1	1	3	..	..	..	..	..	..	..	..	..	..	..	..	106
" " G	101	1	2	1	..	..	2	..	..	..	..	4	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	114
Chief Officer, Fire Brigade	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Hydraulic Engineer	..	..	..	..	86	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	88
Municipal Storekeeper	..	..	..	22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	..	..	..	1	..	3	..	32
Ackworth Loper Asylum	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Deputy Executive Engineer, Mechanical Branch	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	473	..	..	1
Private	5	2	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	484
GRAND TOTAL	818	4	21	35	287	1	47	1	3	1	1	13	6	1	34	5	1	6	1	11	1	1	123	1	479	4	3	1,909

Statement of Well and Tank Waters examined chemically during 1916.

No.	Received from				Situated at				Opinion as to potability from a chemical point only.
1	Malaria	Inspector,	D. Ward	..	593/5, Girgaum Road	..	..	..	Fair.
2	Do.	do.	D do.	..	7-B, Nepean Sea Road	..	..	..	Fit.
3	Do.	do.	D do.	..	15/16, Narayan Dabholkar Road	..	..	..	"
4	Do.	do.	D do.	..	36, Nepean Sea Road	..	..	..	"
5	Do.	do.	D do.	..	49/51, (1) Warden Road	..	..	..	Unfit.
6	Do.	do.	D do.	..	18, New Queen's Road	..	..	..	Fit.
7	Do.	do.	D do.	..	Between two houses, 234, Girgaum Road and 1-A, Lamington Road.				Objectionable.
8	Deputy Health Officer,	D	do.	..	35-A, Banganga	..	..	..	Unfit.
9	Do.	do.	D do.	..	35-AB do.	..	..	..	Fair.
10	Do.	do.	D do.	..	35-C do.	..	..	..	"
11	Malaria	Inspector,	C do.	..	19/21, Pinjrapole Road	..	..	..	Suspicious.
12	Do.	do.	C do.	..	3/5, 1st Pinjrapole Road	..	..	..	Unfit.
13	Do.	do.	C do.	..	10, 3rd Bhoiwada Cross Lane	..	..	..	Objectionable.
14	Do.	do.	C do.	..	58/60, 3rd Marine Street	..	..	..	Fit.
15	Do.	do.	E do.	..	1, Victoria Road	..	..	..	"
16	Do.	do.	E do.	..	13/17, Nawab Tank Road	..	..	..	Unfit.
17	Deputy Health Officer,	C	do.	..	Near 168-172, Kalbadevi Road	..	..	..	Fair.
18	Malaria	Inspector,	C do.	..	5-6, Amrit Wadi	..	..	..	"
19	Do.	do.	A do.	..	85-87, Cawasji Patel Street	..	..	..	"
20	Do.	do.	C do.	..	43-45, Dady Street, Agiary Street	..	..	..	"
21	Do.	do.	A do.	..	79-83, Common to 85-87, Cawasji Patel Street	..	..	..	"
22	Do.	do.	A do.	..	332/340, Bohra Bazar Street	..	..	..	"
23	Do.	do.	C do.	..	9, Kumbhar Lane	..	..	..	"
24	Do.	do.	A do.	..	6/8, Cawasji Patel Street	..	..	..	Fit.
25	Do.	do.	A do.	..	105, Frere Road	..	..	..	Fair.
26	Do.	do.	A do.	..	281, Hornby Road	..	..	..	Fit.
27	Do.	do.	A do.	..	277, do.	..	..	..	"
28	Do.	do.	E do.	..	177, (10) Queen's Road	..	..	..	Fair.
29	Deputy Health Officer,	F	do.	..	110, Dadar Road	..	..	..	Unfit.
30	Do.	do.	G do.	..	685, Portuguese Church Street	..	..	..	Fair.
31	Do.	do.	G do.	..	178, Worli Koliwada	..	..	..	Unfit.
32	Malaria	Inspector,	C do.	..	394/98, Kalbadevi Road	..	..	..	Fair.
33	Do.	do.	D do.	..	139, Khetwadi Main Road	..	..	..	Unfit.
34	Do.	do.	C do.	..	90/92, Nizam Street	..	..	..	"
35	Do.	do.	B do.	..	Juma Masjid	..	..	..	"
36	Deputy Health Officer,	D	do.	..	46-E, Khetwadi Main Road	..	..	..	Fit.
37	Malaria	Inspector,	E do.	..	13/17, Nawab Tank Road	..	..	..	"
38	Do.	do.	C do.	..	59, Girgaum Back Road	..	..	..	Unfit.
39	Do.	do.	A do.	..	322/324, Bazar Gate Street	..	..	..	"

No.	Received from			Situated at				Opinion as to potability from a chemical point only.
40	Malaria Inspector,	C Ward	..	18, Maruti Lane	..	..	..	Fit.
41	Do.	do.	C do.	58/62, Trinity Street	..	..	..	Suspicious.
42	Do.	do.	C do.	552, Parel Road	..	..	..	Unfit.
43	Do.	do.	C do.	2/18, Dharamsi Cross Road	..	..	..	"
44	Do.	do.	A do.	Hornby Road No. 235	..	..	..	Fit.
45	Do.	do.	D do.	219/221, Girgaum Back Road	..	..	..	Unfit.
46	Deputy Health Officer,	F do.	..	1110f/1110ff, Laxminarayan Lane	..	..	..	"
47	Do.	do.	F do.	34, Naigam Cross Road	..	..	..	Fit.
TANK WATER.								
1	Malaria Inspector,	C Ward	..	2, 3rd Bhoiwada Cross Road	..	..	..	Unfit.

Statement of milk samples examined chemically during 1916.

			Ge uine.	Fair.	Doubtful.	Preservatives.	Skim milk.	Not genuine.	Total.	REMARKS.
Executive Health Officer	..	..	1	..	..	..	..	1	2	
Municipal Analyst	..	..	124	1	7	1	..	52	185	
Deputy Health Officer, A	..	..	59	..	..	43	..	19	121	
Do.	do.	B ..	26	..	1	3	..	7	37	
Do.	do.	C ..	55	..	3	1	..	34	93	
Do.	do.	D ..	50	..	2	6	..	15	73	
Do.	do.	E ..	69	..	2	11	1	39	122	
Do.	do.	F ..	31	..	1	..	..	46	79	
Do.	do.	G ..	34	..	1	..	..	66	101	
Private	..	..	4	..	..	..	..	1	5	
Total			453	1	17	65	1	280	818	Detected in twelve samples.

Statement of ghee samples examined during 1916.

Received from					Genuine.	Fair.	Not genuine.	Total.
Executive Health Officer	..	..	..	..	1	....	1	2
Deputy Health Officer, A	..	..	..	..	....	....	1	1
Do.	do.	B	..	..	1	....	5	6
Do.	do.	F	..	..	4	2	2	8
Do.	do.	G	..	..	1	....	1	2
Acworth Leper Asylum	..	..	..	..	....	....	2	2
Total					7	2	12	21

Statement of articles, other than Waters, examined during the year 1916 Bacteriological.

[illegible]

VI.

Statement of water samples examined bacteriologically during the year 1916.

			Microbes per c. c.	Cholera vibrio.	B. Typhosus.	B. Coli.	Lactose fermenters.	B. E. Sporogenes.	Streptococci.	Well water for Cholera vibrio.	Water for Cholera vibrio.	Well water for B. Typhosus.	Total.	REMARKS.
Municipal Analyst	..	..	192	192	..	192	192	192	192	..	..	..	1,152	
Deputy Health Officer, A	..	..	..	34	1	..	..	..	..	1	5	..	41	
Do. do. B	..	..	..	14	39	..	..	..	..	3	1	3	60	
Do. do. C	..	..	..	20	29	..	..	..	..	1	..	..	50	
Do. do. D	..	..	1	3	43	1	1	1	..	..	..	..	50	
Do. do. E	..	..	..	21	40	..	..	..	..	..	3	..	64	
Do. do. F	..	..	..	2	4	..	..	..	..	1	..	..	7	
Do. do. G	..	..	..	10	13	..	..	..	..	1	..	..	24	
Deputy Executive Engineer, Mechanical Branch	..	..	2	..	..	2	2	2	..	..	..	..	8	
Total			195	296	169	195	195	195	192	7	9	3	1,456	Does not include the other waters.

VII.

Statement of water samples examined for various microbes and in which the same were detected during 1916.

Cholera vibrio.		B. Typhosus.		B. E. Sporogenes.		Lactose fermenters.		B. Coli (Houston's).		Streptococci.	
I	II.	I.	II.	I.	II.	I.	II.	I.	II.	I.	II.
296	Nil.	169	Nil.	195	Nil.	195	153	195	138	192	Nil.

I.=Total number of samples examined.

II.=Total number of samples in which the organism was detected.

The Annual Report of the Superintendent of Vaccination for 1916.

I was in charge of the Department throughout the year, except for May and June 1916, when Dr. D. R. Barve acted for me.

Superintendent.

The establishment consists of the Superintendent, the Assistant Superintendent, 10 Vaccinators, 5 Clerks, 17 Karkoons, 3 Peons and 15 Coolies.

Vaccination
Establishment.

2. The following statement gives the number of persons primarily vaccinated and re-vaccinated during 1916 and the preceding nine years, with the number of persons successful and the percentage of success :—

Vaccine operations with results during 1907—1916

YEAR.			Primary Vaccinations.			Re-vaccinations.			Total Number of persons vaccinated.		
			Number of persons vaccinated.	Number successful.	Percentage of success.	Number of persons re-vaccinated.	Number successful.	Percentage of success.	Number of persons vaccinated and re-vaccinated.	Number successful.	Percentage of success.
1907	...	...	16,720	15,355	91.84	1,282	85	6.63	18,002	15,440	85.77
1908	...	...	19,122	16,801	87.86	4,633	257	5.55	23,755	17,058	71.80
1909	...	...	18,447	16,336	88.56	10,669	116	1.09	29,116	16,452	56.50
1910	...	...	17,356	15,371	88.56	23,600	70	.30	40,956	15,441	37.70
1911	...	...	19,312	17,819	92.27	18,786	86	.46	38,098	17,905	47.00
1912	...	...	20,946	18,876	90.13	17,094	201	1.18	38,040	19,079	50.15
1913	...	...	20,877	18,559	88.90	15,189	63	.41	36,066	18,622	51.62
1914	...	...	20,207	17,704	87.61	12,243	63	.51	32,450	17,767	54.75
1915	...	...	19,721	17,331	90.42	10,116	41	.41	29,837	17,872	59.90
1916	...	...	19,215	16,529	86.02	31,746	8	.03	50,961	16,537	32.45

It will be observed that the total number of persons operated upon during the year was 50,961 against 29,837 in 1915, of which 19,215 were primary vaccinations being 506 less than in 1915 and 31,746 were Re-vaccinations, being 21,630 more than in 1915. Out of the Primary Vaccinations 10,882 were Bombay-born and 8,329 out-born, compared with 10,530, 9,047 respectively in the last year.

Of the Primary Vaccinations 16,529 were successful, the percentage of success being 86.02; this, however, is raised to 94.61 if 1,747 "Unknown" cases be left out. Of the Re-vaccinations 8 were successful, yielding a percentage of 0.03 which, however, is raised to 20.00 if 31,706 "Unknown" cases be excluded. Calculated on the total number of persons vaccinated, percentage of success works out to 32.45.

3. The following table shows the results in Primary Vaccinations by age-periods.

Primary vaccination results by age periods.

Under 1 year.			Between 1 and 6 years.			Above 6 years.			Total results.			Total operations.
Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	
* 13,821 Ratio per mille of po- pulation. 14.11.	818	1,325	2,611	117	330	106	4	42	16,538 Ratio per mille of po- pulation. 16.89.	939	1,747	19,224

Vaccination by others than Vaccination staff.

4. The subjoined table shows the Vaccinations performed by Private Medical Practitioners, the District Registrars of the Health Department, and the Medical Officers in charge of the two Jails and the Colaba Lunatic Asylum :—

	Primary Vaccinations.							Re-vaccinations.		
	Males.	Females.	Total.	Successful.			Unknown.	Total.	Successful.	Unknown.
				Under 1 year.	1 and 6 years.	All ages.				
District Registrars. ...	...	...	...	...	...	...	...	32	7	25
L. M. Practitioners ...	1	4	5	2	...	...	3	2,508	...	2,508
The two Jails... ..	...	...	...	...	...	...	...	122	120	...
Colaba Lunatic Asylum.	...	...	...	...	...	...	...	...	...	...

Inspection of vaccination.

5. Table showing the particulars of Primary and Re-vaccinations verified by Inspecting Officers :—

Total number of persons vaccinated.		Total number inspected.		Percentage of inspection to total number vaccinated.		Percentage of cases found successful to total number inspected.		Percentage of success reported by the Vaccinators.	
		By the Superintendent.	By the Asst. Supdt. and the Head Vaccinator.	By the Superintendent.	By the Asst. Supdt. and the Head Vaccinator.	By the Superintendent.	By the Asst. Supdt. and the Head Vaccinator.		
P.	R.	P.	R.	P.	R.	P.	R.	P.	R.
19,215	31,746	S. F. (5,782+323) = 6,111	S. F. (5+20) = 25	S. F. (5,693+492) = 6,185	S. F. (3+27) = 30	31.80	.08	32.19	.09
						94.62	20.00	92.65	10.00
								86.02	.08

Heifers inoculated, scraped for emulsion, &c.

6. The table below shows by months number of calves inoculated and the number rejected after inoculation owing to sickness ; as also the number of calves scraped for emulsion during the year and the number used for calf to arm vaccination.

Heifers.	1916. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Number inoculated...	62	81	90	71	55	44	59	70	50	60	52	61	746
Number successful ...	61	81	86	66	41	40	39	64	48	49	47	59	681
Number unsuccessful	...	...	...	...	2	...	9	...	1	4	2	1	19
Number rejected after inoculation owing to sickness ...	1	...	4	5	12	4	2	6	1	7	3	1	46
Number inoculated for emulsion ...	29	12	45	44	28	20	19	40	34	23	12	15	321
Number inoculated for calf to arm vaccination ...	33	69	45	27	27	24	31	30	16	37	40	46	435

Proceeds from the sale of lymph and from other sources.

7. The following statement shows the proceeds from the sale of lymph, the fees realized from vaccination at private places, etc., during the year under report :—

Amount realized by the sale of lymph.	Municipal moiety of the fees from private vaccination.	Municipal fee (moiety only) for vaccination instruction to Medical Students.	Municipal fee for giving vaccination extracts, &c.	Total.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
10,615 4 0	1,727 0 0	610 0 0	118 14 4	13,071 2 4

8. The cost of each successful operation including all charges² was Rs. 2-0-10 against Rs. 1-12-7 in the preceding year ; if the amount realized by the sale of lymph, by fees for private vaccination, etc., (Rs. 13,071-2-4) be deducted from the total expenditure the cost works out Re. 1-4-2 against Rs. 1-3-7 for the last year. Cost of single operation.

9. If calculated on the total number of vaccine operations, the cost of each operation, after deducting the proceeds from the sale of lymph, from private vaccination, etc., comes to Rs. 0-6-7 against Rs. 0-11-8 for the last year.

10. During the year under report 142 certificates of postponement of vaccination of children were granted. Postponement certificates.

11. There were no prosecutions during the year either for neglect of Vaccination, or for neglect of Inspection of the result. Prosecution under Vaccination Act.

12. The following table shows the different kinds of lymph used, the operations done with each kind and the comparative results obtained during the year 1916 :— Work done with different kinds of lymph.

Kind of lymph.	Number of operations.		Successful cases excluding the "Unknown."		"Unknown" cases.		Percentage of success excluding the "Unknown."	
	P.	R.	P.	R.	P.	R.	P.	R.
(a) Human	...	...	...	...	...	...	...	...
(b) Animal	5,428	7,177	4,726	4	469	7,154	95.30	17.39
(c) Glycerinated	13,796	24,569	11,812	4	1,278	24,532	94.36	10.81
Total operations ...	19,224	31,746	16,538	8	1,747	31,706	94.63	20.00

13. During the year under report 1,272 Capillary Tubes were submitted to the Municipal Analyst for Bacteriological Examination. These tubes were samples from 360 Glycerinated Emulsions. No emulsion was rejected as a result of Bacteriological Examination.

14. During the year under report 4 Military Medical Pupils, 91 Civil Medical and 27 others students attended the different Public Vaccine Stations in the City for receiving practical instruction in vaccination. Instruction in Vaccination.

15. During the year under report the total number of deaths reported from Small-pox was 1,021 as against 359 in the year preceding. Small-pox.

The total number who left Bombay for the Haj during this period was 2,632. Of these 2,449 were vaccinated in Bombay before embarkation ; i.e., 93.05 per cent.

The following table shows the number of males and females and the number of Primary Vaccinations and Re-vaccinations performed amongst the Pilgrims by the Special Staff that was engaged for the purpose (viz., 1 Vaccinator, 2 Clerks and 2 Coolies) :—

	Males.	Females.	Total.
Primary Vaccinations	2	4	6
Re-vaccinations	2,165	278	2,443
Total number ...	2,167	282	2,449

The female pilgrims were vaccinated by Nurse Mrs. Rachelbai.

No serious ill-effects following vaccination were observed or brought to notice during the year.

The following table shows the vaccination work done in the Bandra and Kurla Circles in 1916 compared with that done in 1915 :—

Vaccination Circle.	Population according to the Census of 1911.	Year.	Children successfully vaccinated.		Children available for vaccination.	Persons primarily vaccinated.	Persons re-vaccinated.	Total number of persons operated upon.
			Under 1 year.	Under 6 years.				
Bandra	24,286 {	1915	240	143	454	524	369	893
		1916	204	72	369	364	225	589
Kurla	15,081 {	1915	39	41	237	127	.....	127
		1916	33	29	220	93	2	95

BOMBAY. 10th March 1917.

J. S. NERURKER, B.Sc., L.M. & S., D.P.H. (Cantab.),

Superintendent of Vaccination,

Bombay.

Meteorological Data (Government Observatory, Colaba), Latitude 18°-53'-36" North, Longitude 72°-48'-56" East.

MONTHS.	BAROMETER.		READING OF THERMOMETER.				Mean Maximum Solar Radiation.	Difference between Dew-point Temperature and Mean Air Temperature.	Degree of Humidity, complete Saturation being 100.	Prevailing Direction of Wind.	Number of Days on which Rain fell.	RAINFALL.		
	Mean Daily Readings.	In.	Maximum.	Minimum.	Mean Daily Range.	Mean Daily Value.						Total Fall of Rain during the Month.	In.	In.
1916.														
January	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August	...	...	...	...	...	...	...	...	...	...	...	...	...	...
September	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE of Deaths and the Death-rate from some of the Principal Diseases by Sections in 1916.

Ward.	SECTION.	1	2	3	4	Population by the Census of 1911.		Number of deaths registered.		7	Death-rate per 1,000 of Population.										9														
						Males.	Females.	Total.	Males.		Females.	Total.	Cholera.	Small-pox.	Measles.	Typhoid.	Bacterial.	Other Fevers.	Dysentery.	Tuberculosis.	Pneumonia.	Other Respiratory Diseases.	Injuries.	All other causes.	Males.	Females.	Total.								
		Average Population per square mile contained on the census population of 1911.		Area in square miles.		Population by the Census of 1911.		Number of deaths registered.		Number of deaths amongst males to every 100 deaths amongst females.		Typhoid.		Bacterial.		Other Fevers.		Dysentery.		Tuberculosis.		Pneumonia.		Other Respiratory Diseases.		Injuries.		All other causes.		Males.		Females.		Total.	
		Area in square miles.		Population by the Census of 1911.		Number of deaths registered.		Number of deaths amongst males to every 100 deaths amongst females.		Typhoid.		Bacterial.		Other Fevers.		Dysentery.		Tuberculosis.		Pneumonia.		Other Respiratory Diseases.		Injuries.		All other causes.		Males.		Females.		Total.			
A	Upper Colaba	...	...	...	...	889	688	1,557	194	362.06	2.56	.64	...	1.92	3.21	8.86	1.92	6.42	3.21	.64	11.56	25.04	23.76	125.82	42.15	86.06	85.23	43.60	49.45						
	Middle and Lower Colaba	...	...	...	...	13,514	6,165	19,679	462	144.44	.60	.45	.25	4.37	.46	.20	.40	1.42	.80	.71	6.70	.25	7.57	20.30	65	23.47	23.01	26.33	27.13						
	Fort, South	...	...	...	...	2,825	637	3,462	19	297	1,463.15	.86	...	1.73	2.88	2.69	1.15	13.86	10.39	13.86	15.88	21.66	13.86	58.40	29.82	65.78	19.11	19.64							
	Fort, North	...	...	...	...	15,564	9,836	25,400	347	886	140.92	.27	1.49	.27	2.55	.23	.66	1.22	2.04	.66	7.79	1.25	12.06	81.41	35.27	32.91	32.83	39.64	35.89						
B	Esplanade	...	...	...	...	12,544	6,217	17,761	143	691	368.21	.66	.33	.05	1.23	1.68	1.46	1.74	2.28	2.42	8.82	8.82	10.69	43.68	27.41	38.00	31.81	34.00							
	Mandvi	...	...	...	...	23,317	9,885	33,202	424	1,021	140.80	.66	.63	.66	3.25	.18	.15	1.29	1.20	.38	1.68	12.49	4.5	8.84	25.60	42.89	30.75	47.24	35.31						
	Chukla	...	...	...	...	15,768	8,463	24,231	433	357	135.29	.12	.24	.78	1.31	.24	...	1.03	1.69	.49	2.84	13.53	.38	11.61	30.53	42.18	34.66	52.22	88.74						
	Umarghadi	...	...	...	...	28,491	17,188	45,679	747	1,718	129.98	.60	.16	.66	1.81	.08	.15	3.58	3.10	.59	1.42	10.79	.48	15.66	34.08	43.46	37.61	40.39	45.49						
C	Dongri	...	...	...	...	16,985	10,361	27,346	332	589	129.18	.08	.18	.11	1.17	.18	.11	.99	1.90	.23	.83	8.88	.66	6.82	19.24	25.04	21.61	41.08	36.73						
	Market	...	...	...	...	22,011	8,161	30,172	441	753	141.34	.76	.76	.92	2.02	.33	.19	1.53	.99	.29	.82	8.88	.59	7.45	20.33	38.23	24.96	36.76	24.59						
	Dhobi Talao	...	...	...	...	24,670	14,014	38,684	624	1,089	136.84	.25	.124	.43	1.06	.36	.15	1.03	1.37	.59	.74	9.56	.85	10.62	25.33	53	27.91	27.36	31.22						
	Fanawadi	...	...	...	...	18,125	9,278	27,403	415	539	754	.29	.51	.65	1.71	.32	.14	1.31	1.60	.14	1.09	8.32	.40	10.98	23.34	56.53	27.61	22.19	86.86						
D	Bhuleshwar	...	...	...	...	24,713	11,746	36,459	487	1,146	135.34	.46	.32	.10	2.52	.24	.08	.90	2.86	.43	.57	11.68	.49	10.99	23.66	41.46	31.48	27.96	46.63						
	Khara Talao	...	...	...	...	15,053	7,927	22,979	419	795	111.43	.34	.39	.21	1.34	.26	.17	.60	2.21	.65	2.00	11.79	.47	14.40	27.34	47.13	34.59	34.31	41.86						
	Kumbharwada	...	...	...	...	17,908	9,795	27,703	526	906	138.42	.18	.72	.79	1.76	.07	.03	.86	2.30	.18	1.40	12.92	.64	10.90	29.37	38.79	33.70	50.09	46.53						
	Khetwadi	...	...	...	...	19,850	19,037	38,887	408	916	124.50	.07	1.37	.46	1.62	.37	.18	1.53	.93	.84	1.84	8.23	.50	10.67	25.59	38.75	28.68	24.78	31.33						
E	Girgaum	...	...	...	...	19,156	11,623	30,779	513	923	125.12	.69	1.00	.45	1.49	.35	.25	2.07	1.42	.71	1.65	8.54	.39	11.59	20.78	35.27	29.98	25.37	36.49						
	Chowpati	...	...	...	...	7,988	4,309	11,897	146	242	115.87	.43	.63	.43	.87	.08	.70	.70	1.22	.62	1.31	5.67	.65	11.18	20.59	29.24	23.86	22.00	30.16						
	Wakleshtwar	...	...	...	...	6,883	3,757	10,640	148	273	118.40	.23	.23	...	2.16	.46	.09	1.23	1.59	.28	.65	7.04	.45	11.18	21.60	33.27	25.65	18.30	26.18						
	Mahakshumi	...	...	...	...	16,608	9,694	26,302	415	735	129.68	.15	.76	.45	2.47	.22	.30	.53	2.47	.41	2.12	8.13	.45	9.42	24.96	33.01	27.94	23.84	33.52						
F	Mazagon	...	...	...	...	19,393	10,677	30,070	531	1,004	137.35	.93	.98	.16	2.32	.03	.09	6.51	4.05	.16	.13	10.90	.49	7.51	29.95	39.61	33.38	32.21	45.61						
	Tarwadi	...	...	...	...	18,141	10,288	28,429	855	1,549	175.10	.14	1.19	.03	2.14	.66	.14	5.76	6.67	2.18	1.16	13.86	.22	11.64	47.08	48.04	46.18	48.94	69.61						
	And Nagpada	...	...	...	...	19,321	8,579	27,900	410	850	107.31	.09	1.65	.41	1.19	.13	.13	.78	2.76	.78	3.96	18.17	.59	13.45	33.03	48.93	39.17	37.80	54.42						
	Kamathipura	...	...	...	...	22,523	14,228	36,751	753	1,428	112.88	.05	.53	.29	2.44	.08	.05	.92	2.63	.54	4.19	13.08	.73	11.18	33.43	47.09	38.72	35.91	52.39						
G	Tardeo	...	...	...	...	17,105	10,517	27,622	485	889	120.04	.10	2.19	.36	1.23	.07	.03	.50	2.70	.57	2.73	10.30	.54	10.66	28.18	38.41	32.02	31.14	43.83						
	Byculla	...	...	...	...	41,672	27,676	75,348	1,546	2,853	118.28	.10	1.71	.31	2.29	.18	.09	.84	4.06	.54	.88	13.82	.54	12.43	37.08	47.22	37.86	36.95	49.60						
	East Nagpada	...	...	...	...	4,182	2,332	6,514	103	178	143.83	...	1.55	.46	.98	.62	.15	.46	3.18	.77	1.24	7.95	.77	10.60	26.10	32.70	37.75	25.82	37.18	29.93					
	Parel	...	...	...	...	28,858	16,516	45,374	806	1,421	131.05	.08	1.84	.15	2.88	.15	.04	2.81	1.45	.21	.87	10.99	.57	9.14	27.52	37.01	33.44	26.16	37.31						
H	Seewi	...	...	...	...	11,841	7,226	19,067	239	509	131.36	.10	.94	.05	1.57	.15	...	2.72	1.99	.20	.57	9.54	.47	8.38	24.08	30.44	25.69	26.77	37.22						
	Stion	...	...	...	...	18,463	12,217	30,680	531	960	153.29	.09	.97	.19	3.12	.09	.06	2.60	2.60	.16	1.04	6.68	.74	12.94	31.46	31.02	31.29	28.32	35.76						
	Mahim	...	...	...	...	18,271	12,221	30,492	556	993	127.23	.06	1.31	.19	1.50	.06	.09	1.67	3.98	.16	1.47	10.03	.59	11.44	30.13	35.75	32.56	29.50	38.86						
	World Harbour, Docks, Railways and Homeless	...	...	...	...	58,473	13,158	89,631	1,592	2,810	128.66	.08	1.43	.36	2.81	.07	.05	3.20	2.52	.26	1.56	8.15	.50	10.63	27.32	34.63	31.69	24.16	39.18						
Total		22.55	43.453	979.445	17,647	30,574	136.51	1.4	1.04	.35	2.02	.24	.17	1.77	2.47	.51	1.42	9.85	.77	10.42	28.02	38.11	31.21	27.98	43.26	33.62									

TABLE of Deaths registered by Section and Month in 1916.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total No. of deaths registered in 1916.
A	Upper Colaba	10	6	11	21	18	14	13	11	12	8	7	3	134
	Middle and Lower Colaba	34	43	49	48	39	33	31	38	32	35	34	40	462
	Fort, South	24	34	32	27	29	30	23	27	22	16	17	16	297
	Fort, North	66	60	76	112	84	69	64	65	55	55	63	67	836
	Esplanade	39	59	60	81	75	53	66	50	43	49	61	55	691
B	Mandvi	75	71	120	129	91	77	61	65	62	77	74	89	721
	Chukla	67	83	80	101	81	58	64	54	54	62	65	71	840
	Umakhadi	125	151	178	194	199	120	149	125	111	120	118	128	1,718
	Dongri	41	57	71	66	55	34	51	54	36	44	29	51	589
	Market	51	54	87	78	83	52	59	53	55	64	61	56	753
C	Dhobi Talao	88	81	132	114	95	70	60	86	86	87	84	97	1,080
	Fanaswadi	51	64	65	82	81	51	61	59	60	68	27	75	754
	Bhuleshwar	91	92	114	159	117	80	86	80	74	88	78	87	1,146
	Khara Talao	56	64	92	100	72	49	58	53	67	61	70	53	795
	Kumbharwada	67	75	97	107	74	71	73	66	63	66	78	69	906
D	Khetwadi	67	74	126	104	90	62	72	73	54	67	58	69	916
	Girgaum	89	88	99	95	87	70	54	62	68	70	61	80	923
	Chowpati	27	24	23	27	15	19	8	22	34	22	26	25	272
	Walkeshwar	20	16	29	42	17	21	20	19	25	18	17	29	273
	Mahalakshmi	56	57	89	87	68	35	74	67	65	54	40	43	735
E	Mazagon	78	95	149	149	70	60	83	66	68	57	65	61	1,004
	Tarwadi	107	99	167	136	114	92	108	117	103	98	112	105	1,359
	2nd Nagpada	73	78	94	113	83	52	72	45	57	65	63	55	850
	Kamathipura	188	136	164	174	116	90	90	100	91	97	113	114	1,423
	Tardeo	81	92	115	70	88	52	65	65	61	62	68	70	889
F	Byculla	261	290	422	305	235	191	199	188	191	182	178	211	2,853
	1st Nagpada	13	18	15	18	26	16	14	10	15	9	10	14	178
	Parel	106	109	206	189	102	81	108	113	110	99	95	103	1,421
	Sewri	51	43	45	57	40	31	57	56	26	31	40	38	509
	Sion	63	95	124	112	83	56	80	77	70	56	62	82	960
G	Mahim	99	89	113	75	98	88	84	74	75	63	62	73	993
	Worli	206	269	342	338	277	212	204	265	176	184	166	201	2,840
	Harbour, Docks, Railways and Homeless.	12	8	15	16	20	14	14	12	11	9	13	10	164
	Total	2,432	2,674	3,631	3,526	2,822	2,110	2,325	2,311	2,132	2,143	2,125	2,343	30,574

TABLE of Deaths registered from all Causes by Section and Age-Period in 1916.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15												
Wks.	SECTION.	Under 1 year.		1 year and under 5 years.		5 years and under 10 years.		10 years and under 15 years.		15 years and under 20 years.		20 years and under 30 years.		30 years and under 40 years.		40 years and under 50 years.		50 years and under 60 years.		60 years and upwards.		Unspecified Age.		Total.	Total.	
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.			
A	Upper Colaba	11	10	2	4	2	...	2	6	...	46	25	5	9	1	2	...	2	5	...	...	...	...	105	29	134
	Middle and Lower Colaba	76	64	18	18	6	14	33	16	14	65	82	14	16	8	18	14	20	19	...	...	...	...	278	189	462
	Fort, South	5	5	3	1	1	...	3	30	...	160	64	4	9	3	4	...	1	1	...	...	...	...	278	19	297
	Fort, North	108	104	58	44	14	12	42	82	25	84	67	36	38	21	37	16	42	35	...	...	...	...	489	317	836
	Esplanade	36	39	18	23	3	5	193	66	5	193	127	12	67	8	26	13	28	9	...	...	...	...	548	143	691
B	Mandvi	129	163	59	40	20	19	103	58	31	103	59	26	58	26	45	21	36	33	...	1	...	...	597	424	1,021
	Chukla	126	103	50	53	5	14	70	23	32	70	57	25	47	13	41	10	39	31	...	...	...	...	483	357	840
	Umakhandi	256	219	125	111	21	36	152	61	50	152	127	49	78	32	56	35	75	71	...	...	...	...	971	747	1,718
	Pongri	94	97	39	38	6	12	64	19	13	64	40	10	26	14	18	16	16	19	...	...	...	...	332	257	589
C	Market	110	107	42	50	7	15	69	43	22	69	35	14	47	12	41	13	34	24	...	...	...	...	441	812	753
	Dhobi Talao	130	132	65	63	9	21	104	45	32	104	80	35	59	22	58	24	55	63	...	...	...	...	624	456	1,080
	Panaswadi	116	85	51	45	15	8	69	33	27	69	29	38	36	19	33	16	26	41	...	...	...	...	415	339	754
	Bhuleshwar	186	141	69	68	21	31	82	40	34	82	75	33	60	25	56	37	50	39	...	...	...	...	659	467	1,146
	Khara Talao	113	93	47	47	12	19	65	25	37	65	41	28	33	15	31	19	41	30	...	...	...	...	419	376	795
	Kumbharwada	134	117	74	61	14	13	92	47	27	92	64	33	27	23	30	13	28	38	...	...	...	...	526	380	906
D	Khetwadi	123	101	66	37	13	20	88	30	29	88	52	44	38	26	48	23	43	60	...	...	...	...	508	408	916
	Cirgaum	154	122	56	54	16	14	62	29	26	62	62	29	50	17	29	26	36	34	...	...	...	...	513	410	923
	Chowpati	32	38	15	18	5	6	27	6	10	27	18	12	9	7	16	6	12	21	...	...	...	...	146	126	272
	Walkeshwar	32	38	11	17	3	4	27	11	8	27	11	10	16	7	14	4	13	25	...	...	...	...	148	125	273
	Mahalakshmi	193	101	40	40	10	12	87	32	16	87	41	21	36	18	25	12	30	33	...	...	...	...	415	320	735
E	Mazagon	141	127	53	52	27	34	99	42	26	99	85	28	40	17	38	34	40	45	...	...	...	...	581	423	1,004
	Tarwadi	153	121	58	63	30	21	180	63	23	180	136	56	85	34	85	23	46	48	...	...	...	...	866	494	1,359
	2nd Nagpada	107	106	54	57	20	21	77	25	33	77	63	32	32	23	25	13	32	42	...	2	...	...	440	410	850
	Kanathipura	191	198	100	109	20	24	126	41	58	126	104	48	54	27	56	37	45	51	...	...	...	...	758	670	1,423
	Tardeo	153	111	54	57	11	18	79	23	33	79	60	51	28	19	27	19	37	33	...	...	...	...	485	404	889
	Bycnlla	462	471	182	194	71	46	268	90	81	268	191	148	95	85	92	61	81	81	...	...	...	...	1,546	1,307	2,853
	1st Nagpada	24	24	16	9	5	2	17	7	6	17	13	3	10	5	6	4	7	6	...	...	...	...	106	73	178
F	Parel	204	156	54	90	38	24	168	75	36	168	79	46	58	31	48	40	66	78	...	...	...	...	806	615	1,421
	Sewri	92	96	29	28	5	10	63	16	10	63	35	12	22	10	13	8	16	20	...	...	...	...	239	220	459
	Sion	149	101	56	55	27	18	89	34	27	89	73	59	46	22	34	15	54	54	...	...	...	...	531	379	960
G	Mahim	153	126	67	66	15	24	64	35	27	64	65	25	55	18	38	23	48	56	...	...	...	...	556	437	993
	Worli	429	374	184	185	55	60	310	132	104	310	171	81	95	69	81	65	93	94	...	...	...	...	1,598	1,242	2,840
	Harbour, Docks, Railways and Homeless	...	...	1	...	1	...	54	17	...	54	47	...	13	...	9	1	4	...	...	...	...	152	2	154	
	Total	4,340	3,875	1,805	1,797	533	516	3,277	1,232	917	3,277	2,177	980	1,383	627	1,170	639	1,185	1,208	...	8	1	17,647	12,927	30,574	
	Persons	8,215	3,612	1,049	1,049	1,052	2,149	5,149	2,149	2,149	5,149	3,137	2,910	2,910	2,910	5,910	5,910	2,383	7,82	...	9	30,574	...	...	...	
	Percentage to Total Mortality	2686	11.78	3.43	3.44	3.44	7.02	16.84	7.02	7.02	16.84	10.16	6.57	6.57	6.57	5.91	5.91	7.82	...	...	...	...	...	...	...	

TABLE showing the Population, the Number of Deaths from all Causes and the

1	2	3													
Ward.	SECTION.	POPULATION BY THE CENSUS OF 1911.													
		Jains.	Brahmins.	Lingaitas.	Bhatias.	Hindus of other Castes.	Hindus, low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and Un-known Castes.	Total.
A	Upper Colaba ...	15	68	...	...	521	533	98	104	4	113	45	56	...	1,557
	Middle and Lower Colaba ...	149	169	69	2	11,094	1,690	1,190	1,085	170	1,760	223	2,037	41	19,678
	Fort, South ...	...	31	7	...	1,460	247	166	96	93	821	55	486	...	3,462
	Fort, North ...	800	1,075	2	1,497	7,779	1,356	1,410	9,692	12	1,378	155	167	45	25,400
	Esplanade ...	1	270	...	32	6,004	5,536	3,019	503	55	967	248	1,062	44	17,761
B	Mandvi ...	2,562	2,387	16	1,659	20,360	194	5,217	9	541	186	8	20	43	33,202
	Chukla ...	765	690	...	160	7,383	34	15,082	74	...	34	...	9	...	24,231
	Umarkhadi ...	1,153	351	8	60	11,916	388	29,280	38	1,371	640	39	22	8	45,679
	Dongri ...	351	350	38	8	22,092	1,222	2,571	24	436	166	13	72	8	27,246
	Market ...	4,489	3,514	91	2,112	14,032	76	3,415	1,306	...	1,111	62	28	37	30,172
C	Dhobi Talao ...	881	2,547	52	1,166	16,226	1,308	1,050	8,519	1	6,461	98	263	12	38,684
	Fanaswadi ...	520	5,104	28	46	16,162	796	502	2,005	3	2,181	7	41	9	27,403
	Bhuleshwar ...	1,949	5,034	...	79	17,194	29	11,377	715	...	28	1	3	...	36,459
	Khara Talao ...	471	173	26	6	5,967	158	15,938	171	28	40	1	...	...	22,979
	Kumbharwada ...	391	847	161	33	23,016	38	2,822	326	3	65	1	...	...	27,708
D	Khetwadi ...	167	3,443	49	111	15,727	245	3,643	7,326	36	1,087	25	62	16	31,937
	Girgaum ...	378	10,079	36	32	1,884	48	295	582	1	1,010	74	60	...	30,779
	Chowpati ...	191	2,266	...	45	7,224	2	381	859	5	444	4	25	1	11,397
	Walkeshwar ...	275	1,023	14	170	5,288	269	677	1,117	14	831	27	271	64	10,640
	Mahalakshmi ...	94	1,933	18	119	17,191	694	887	4,049	16	1,298	2	131	...	26,302
E	Mazagon ...	237	411	7	...	18,487	1,235	4,562	1,243	35	3,114	292	413	39	30,075
	Tarwadi ...	200	547	20	6	18,914	1,502	3,080	990	600	1,219	667	678	1	28,424
	2nd Nagpada ...	67	66	...	...	5,309	905	14,690	82	374	196	1	7	3	21,700
	Kamathipura ...	364	825	75	19	21,268	5,432	7,742	174	137	528	64	51	72	36,751
	Tardeo ...	246	810	8	4	12,652	4,209	4,852	3,815	12	824	96	29	74	27,768
F	Byculla ...	783	1,348	30	3	42,470	7,831	16,556	833	906	2,720	904	961	3	75,348
	1st Nagpada ...	120	347	4	...	2,796	50	1,233	46	808	606	282	121	1	6,314
	Parel ...	592	1,356	119	28	35,596	1,785	2,192	1,681	26	829	89	111	6	45,474
	Sewri ...	201	212	19	...	16,172	919	992	42	7	423	18	62	...	19,067
	Sion ...	459	1,849	30	238	19,459	3,085	2,412	728	21	2,191	92	114	2	30,680
G	Mahim ...	410	1,230	54	31	20,498	927	3,609	550	40	2,913	108	125	2	30,492
	Worli ...	915	2,374	189	46	63,875	8,666	4,859	1,918	683	3,393	294	399	...	82,611
	Harbour, Docks, Railways, and Homeless ...	319	977	15	68	21,276	2,405	13,560	229	30	1,706	198	4,008	188	44,979
Total ...		20,460	53,656	1,179	7,780	547,192	54,235	179,346	50,931	6,597	41,273	4,188	11,894	714	979,445

Death-Rate per 1,000 of Population by Caste and Section in 1916.

4																5															
NUMBER OF DEATHS FROM ALL CAUSES EXCLUDING STILL-BORN.																DEATH-RATE PER 1,000 OF POPULATION AMONGST:—															
Jains.	Brahmins.	Lingaites.	Bhattias.	Hindus of other Castes.	Hindus, low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro African.	Buddhists.	Other and unknown Castes.	Total.	Jains.	Brahmins.	Lingaites.	Bhattias.	Hindus of other Castes.	Hindus, low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and unknown Castes.	Total.		
1	1	...	...	16	14	10	1	...	4	...	87	...	...	...	134	66-66	14-70	...	...	30-71	26-26	102-04	9-61	...	35-39	...	1553-57	.....	86-06		
...	2	1	...	251	76	44	8	1	24	5	42	...	...	1	462	26-84	11-88	14-49	...	32-62	44-97	36-97	7-72	5-88	13-68	35-87	20-61	24-39	28-47		
59	80	1	51	257	106	61	209	...	43	7	12	...	...	...	836	73-75	27-90	500-00	34-98	38-03	78-05	42-36	21-56	...	31-28	45-16	7-18	.....	82-91		
1	5	...	...	218	104	171	5	...	41	10	154	...	1	1	691	1,000-00	18-51	...	...	36-80	18-71	56-64	9-94	...	42-39	40-32	126-17	45-45	38-90		
171	76	1	33	537	15	179	...	5	4	...	...	...	...	...	1,021	66-74	31-83	62-50	19-99	26-37	77-31	34-31	...	9-24	21-60	...	...	.....	30-75		
66	9	...	9	149	2	600	1	...	...	...	...	3	...	1	840	86-27	13-04	...	56-30	20-18	58-82	39-98	13-51	...	...	...	...	.....	84-66		
31	6	...	1	366	116	1,118	1	52	18	...	1	4	2	2	1,718	26-77	17-09	...	16-89	30-71	147-30	38-31	26-31	37-92	28-12	...	45-45	500-00	37-61		
17	8	...	...	370	113	71	1	7	3	1	2	...	...	1	589	48-43	12-00	...	...	16-74	92-47	27-81	41-66	16-05	18-07	76-92	27-77	333-33	31-61		
209	85	5	46	292	5	71	13	...	25	2	...	...	...	...	753	46-55	24-18	54-94	21-78	20-80	66-66	20-79	10-77	...	22-50	32-25	...	.....	24-95		
65	68	2	22	447	86	57	145	...	790	1	2	...	...	...	1,080	73-77	24-78	38-46	18-88	37-54	65-74	66-16	16-82	...	29-40	10-20	7-60	.....	27-91		
54	141	...	5	447	25	13	33	...	35	...	...	...	...	1	764	103-84	37-82	...	103-89	37-46	51-40	25-89	16-45	...	11-46	...	...	111-11	27-51		
222	98	...	1	345	22	438	15	...	8	...	...	...	...	1	1,146	113-90	19-47	...	12-58	30-06	758-62	38-49	20-97	...	107-14	...	...	.....	31-43		
26	5	...	...	151	45	562	3	...	3	...	...	...	1	...	795	53-07	28-90	...	...	25-30	183-67	35-26	17-54	...	75-00	...	...	.....	34-59		
19	17	5	1	729	42	83	7	...	1	...	...	...	...	2	906	48-59	20-07	31-05	30-90	31-67	1105-25	39-41	21-47	...	15-48	...	...	.....	33-70		
38	79	5	7	472	9	102	166	1	35	...	2	...	...	...	916	227-54	22-94	102-4	63-66	30-01	36-73	27-99	22-65	27-77	32-19	...	32-25	.....	28-68		
47	219	2	2	583	5	21	12	...	21	4	...	...	...	1	923	124-33	21-72	55-55	62-9	32-39	104-16	71-18	20-61	...	20-79	54-05	...	.....	29-98		
16	25	...	8	183	1	10	22	...	5	1	...	...	1	...	272	83-76	11-03	...	177-7	25-38	500-00	20-21	25-61	...	11-25	250-00	...	1000-00	23-86		
16	15	...	9	173	12	16	28	...	3	...	1	...	...	...	273	58-18	14-66	...	52-34	32-71	44-60	23-63	25-06	...	3-61	...	29-51	.....	25-65		
7	29	2	7	407	144	35	79	...	7	...	16	...	...	2	735	74-46	15-00	111-11	58-33	23-67	207-49	39-45	19-51	...	5-70	...	12-21	.....	27-94		
17	18	5	...	552	101	213	22	2	59	10	3	...	2	...	1,004	71-72	43-79	714-28	...	29-85	31-78	46-69	17-69	57-14	11-23	34-24	7-26	51-28	33-38		
12	11	2	1	873	68	231	21	15	92	11	17	...	3	2	1,359	60-00	20-10	100-00	161-59	46-15	45-27	75-00	21-21	25-00	75-47	16-49	25-07	5000-09	46-18		
8	5	...	...	86	131	587	4	13	10	4	...	6	...	1	850	44-76	75-75	...	...	16-19	144-75	33-56	48-78	34-75	51-02	4000-00	...	333-63	39-17		
10	23	90	1	672	332	257	4	3	23	1	3	1	3	...	1,428	27-47	27-87	1,200-00	52-35	31-59	61-11	33-82	22-98	21-89	43-56	15-62	58-82	41-66	38-72		
14	19	2	...	311	245	186	75	1	30	3	2	...	1	...	889	56-91	23-46	250-00	...	24-58	58-20	38-27	19-65	13-83	33-93	31-25	68-96	13-51	39-02		
45	37	7	...	1,132	587	723	21	26	215	32	23	2	...	1	2,853	67-47	27-44	233-93	...	26-63	66-64	43-91	25-21	28-69	79-04	35-39	23-93	333-33	37-36		
2	4	...	...	56	13	46	...	83	16	6	3	...	...	...	178	16-66	11-52	...	...	20-02	260-00	37-13	...	40-84	26-39	21-27	16-53	.....	37-75		
20	27	7	1	1,044	165	89	23	3	31	5	6	...	...	...	1,421	33-78	19-91	61-94	35-71	23-52	93-43	40-60	13-68	31-35	37-39	56-17	54-05	.....	33-44		
4	9	2	...	409	28	45	...	...	12	...	...	...	...	...	509	19-90	42-45	105-26	...	25-29	30-36	45-36	...	...	28-36	...	...	.....	26-69		
18	32	...	4	553	127	97	19	...	106	3	1	...	...	...	960	39-31	17-80	...	16-49	38-41	41-16	40-21	26-09	...	48-37	32-60	8-77	.....	31-29		
14	37	1	2	431	193	165	6	...	91	...	2	...	...	1	993	34-14	30-08	18-51	64-21	33-46	208-19	45-71	10-90	...	31-28	...	14-00	500-00	32-56		
44	75	32	1	1,758	597	188	33	20	82	8	1	1	...	...	2,840	48-08	31-59	109-31	21-73	26-63	68-88	58-89	17-20	29-28	24-16	27-21	2-50	.....	31-69		
...	1	...	...	58	1	48	...	...	5	...	34	...	5	2	154	.....	3-61	...	...	2-73	41	3-63	...	...	2-93	...	8-48	37-23	3-42		
1,271	1,207	172	212	14,538	3,532	6,604	979	185	1,252	122	403	17	21	20	30,574	62-12	22-49	145-88	27-24	23-85	65-14	36-91	19-22	23-04	30-09	29-13	33-83	57-42	31-21		

TABLE of Deaths registered from CHOLERA by Section and Month in 1916.

Ward.	SECTION.	3												4			5		Mean Ratio per 1,000 of Population during the previous 5 years.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Males.	Females.		
														Males.	Females.				
A	Upper Colaba ...	...	...	...	...	...	1	...	...	3	...	...	...	...	...	...	...	...	2.56
	Middle and Lower Colaba ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	.50
	Fort, South ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort, North ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
B	Esplanade ...	...	...	...	...	1	5	2	...	1	...	...	...	...	...	...	...	...	.27
	Mandvi ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	.56
	Chukla ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
	Umarkhadi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
C	Dongri ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	.06
	Market ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.12
	Dhobi Talao ...	...	...	...	...	...	...	1	...	3	...	...	...	...	...	...	...	...	.73
	Fanaswadi ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	.50
D	Bhuleshwar ...	...	...	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	.03
	Khara Talao ...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	.19
	Kumbharwada ...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	.25
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.39
E	Khetwadi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.51
	Girgaum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.26
	Chowpati ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	.43
	Wakeshwar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.28
F	Mahalakshmi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.15
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mazagon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.08
	Tarwadi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.14
G	2nd Nagpada ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.09
	Kamathipura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.27
	Tardeo ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.05
	Byculla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.10
H	1st Nagpada ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.10
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Parel ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.08
	Sewri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.10
I	Sion ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.09
	Mahim ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Worli...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.06
	Harbour, Docks, Railways and Homeless ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.08
Total ...		1	...	3	1	2	7	39	43	23	5	12	5	141	39	102	11	14	46

TABLE of Deaths registered from SMALL-POX by Section and Month in 1916.

Ward.	SECTION.	3												4			5		Mean Ratio per 1,000 of Population during the previous 5 years.	
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Death Ratio per 1,000 of Population.				
														Males.	Females.	Males.	Females.			
A	Upper Colaba	1	1	4	2	3	1	...	1	...	...	...	...	...	1	...	...	64	...	
	Middle and Lower Colaba	1	...	1	1	...	...	...	...	...	...	...	...	...	9	...	...	45	25	
	Fort, South	1	...	8	17	5	6	...	...	...	...	...	...	...	38	...	...	86	23	
	Fort, North	...	1	3	2	...	...	...	...	...	...	...	...	...	6	...	...	149	22	
B	Esplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33	...	
	Mandvi	...	...	3	6	4	3	2	...	...	...	...	...	...	21	...	...	63	13	
	Chukla	...	...	3	2	1	...	...	...	...	...	...	...	...	6	...	...	24	08	
	Umarkhadi	...	...	3	1	2	...	...	...	...	...	...	...	...	7	...	...	15	24	
C	Dongri	...	4	1	1	1	1	...	...	...	...	...	...	...	5	...	...	18	29	
	Market	4	3	9	1	5	...	...	1	...	...	...	...	...	23	...	...	76	33	
	Dhobi Talao	2	8	20	13	4	...	...	...	...	...	...	...	...	43	...	...	121	69	
	Fanaswadi	3	2	3	4	1	1	...	...	...	...	...	...	...	14	...	...	51	54	
D	Bhuleswar	...	...	5	2	4	1	...	...	...	...	...	...	...	12	...	...	32	13	
	Khara Talao	...	...	2	2	1	...	...	...	...	...	...	...	...	9	...	...	39	17	
	Kumbharwada	1	3	13	1	...	2	...	...	...	...	...	...	...	20	...	...	72	39	
	Khetwadi	2	9	21	5	4	3	...	...	...	...	...	...	...	41	...	...	137	40	
E	Girgaum	4	4	16	5	1	1	...	...	...	...	...	...	...	31	...	...	74	74	
	Chowpati	...	1	5	...	...	...	...	...	...	...	...	...	...	6	...	...	52	61	
	Walkeshwar	...	1	...	...	...	...	...	...	...	...	...	...	...	3	...	...	28	18	
	Mahalakshmi	4	3	4	2	3	2	...	1	...	...	...	...	...	20	...	...	76	63	
F	Mazagon	...	2	13	8	2	2	...	...	...	...	...	...	...	23	...	...	93	69	
	Tarwadi	...	3	14	10	4	1	...	...	...	...	...	...	...	34	...	...	119	63	
	2nd Nagpada	2	7	12	10	5	...	...	...	...	...	...	...	...	36	...	...	27	27	
	Kamatapur	19	30	27	10	3	1	1	1	1	...	...	...	...	93	...	...	253	62	
G	Tardeo	5	12	21	11	8	2	...	...	...	...	...	...	...	61	...	...	319	54	
	Eyculla	13	45	45	11	8	4	...	...	...	...	...	...	...	129	...	...	171	84	
	1st Nagpada	1	1	2	3	3	...	...	...	...	...	...	...	...	10	...	...	155	31	
	Parel	6	10	19	23	11	13	2	...	...	...	...	...	...	84	...	...	181	61	
H	Sewri	3	1	2	2	3	5	...	...	...	...	...	...	...	18	...	...	94	41	
	Ston	...	3	8	3	2	5	...	1	...	...	...	...	...	30	...	...	97	45	
	Mahim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Worli	10	20	36	24	16	11	4	5	...	...	...	...	...	40	...	...	131	33	
Harbour, Docks, Railways and Homeless		...	...	1	1	1	...	...	...	...	...	...	...	...	3	...	...	06	15	
Total		84	130	340	198	107	65	24	11	5	6	...	1	575	446	1021	89	131	104	45

TABLE of Deaths registered from MEASLES by Section and Month in 1916.

1	2	3	4	5	6													
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Death Ratio per 1,000 of Population.		Mean Ratio per 1,000 of Population during the previous 5 years.
														Males.	Females.	Males.	Females.	
A	Upper Colaba ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Middle and Lower Colaba ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Fort, South ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Fort, North ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
B	Esplanade ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Mandvi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chutla ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Umarkhadi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C	Dongri ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Market ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Dhobi Talao ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Fanswadi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
D	Bhuleshwar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Khara Talao ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Kumbharwada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Khetwadi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
E	Girgaum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chowpati ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Walkeshwar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Mahalakshmi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
F	Mazagon ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tarwadi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2nd Nagpada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Kanathipura ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
G	Tardeo ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Byculla ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1st Nagpada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Patel ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H	Sewri ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Sion ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Mahim ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Worli ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Harbour, Docks, Railways and Homeless ..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..		39	46	87	72	51	19	8	4	6	1	3	8	171	173	344	51	25
		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE of Deaths registered from PLAGUE by Section and Month in 1916.

1	2	3												4		5		6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Death Ratio per 1,000 of Population.		Mean Ratio per 1,000 of Population during the previous 5 years.
														Males.	Females.	Males.	Females.	
A	Upper Colaba	3	11	10	2	10	2	1	7	6	1	9	7	3	86	132	...	2.56
	Middle and Lower Colaba	...	...	...	13	8	...	...	1	...	...	...	...	...	37	437	...	4.92
	Fort, South	1	...	8	1	22	4	...	1	...	...	...	...	...	6	173	...	1.73
	Fort, North	...	3	4	10	8	...	...	...	...	...	...	...	...	22	123	...	2.79
B	Epplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.06
	Mandvi	6	7	27	28	14	10	5	1	...	4	4	2	108	...	325	...	3.13
	Chukla	1	8	7	17	6	8	1	...	...	...	...	1	41	...	131	...	2.31
	Umarbadi	1	9	13	36	13	4	4	...	...	...	...	...	83	...	181	...	3.02
C	Dongri	...	1	8	13	5	1	1	...	1	2	...	...	38	...	117	...	2.75
	Market	1	1	13	19	15	4	3	...	1	8	2	...	61	...	202	...	2.23
	Dhobi Talao	...	...	5	17	8	3	1	...	2	3	...	...	41	...	186	...	3.61
	Paraswadi	1	...	5	12	11	6	3	...	1	2	...	...	47	...	171	...	2.55
D	Ehulshwar	...	5	11	36	24	6	4	3	1	1	...	...	92	...	252	...	3.30
	Khara Talao	1	...	4	19	5	2	...	...	...	...	...	...	31	...	134	...	2.74
	Kumbharwada	...	3	7	26	7	2	1	2	1	...	...	...	49	...	176	...	2.85
	Khetwadi	3	4	5	22	15	1	1	...	1	...	1	...	52	...	162	...	1.22
E	Girgaum	3	1	5	9	14	5	2	1	...	3	1	...	48	...	149	...	1.42
	Chowpati	...	2	...	8	3	2	...	...	...	...	...	...	10	...	87	...	1.31
	Walkeshwar	...	...	3	9	3	1	6	1	...	...	...	...	23	...	216	...	1.03
	Mahalakshmi	...	2	22	32	8	...	...	...	1	...	...	...	65	...	247	...	2.85
F	Maragor	...	11	35	28	4	1	1	...	...	...	...	...	70	...	282	...	3.55
	Tarwadi	3	6	23	17	6	...	1	...	1	...	3	...	61	...	214	...	2.95
	2nd Nagpada	...	...	3	10	5	3	3	...	1	...	...	...	26	...	119	...	1.83
	Kamathipura	...	2	9	36	20	4	6	...	4	2	...	...	90	...	244	...	1.65
G	Tardeo...	...	3	11	7	9	1	...	...	...	...	...	...	34	...	122	...	1.58
	Byulla	6	12	67	43	20	6	7	5	6	1	1	...	173	...	229	...	2.46
	1st Nagpada	...	...	...	1	8	...	...	...	...	2	...	...	6	...	93	...	1.24
	Parcel	2	10	47	49	11	3	2	...	2	1	...	...	131	...	288	...	2.91
H	Sewri	...	4	10	7	2	4	3	...	...	...	...	...	30	...	157	...	3.19
	Sion	...	6	31	35	13	3	1	...	1	...	...	...	96	...	313	...	2.21
	Mahim	1	3	9	6	20	1	4	1	1	...	...	...	46	...	150	...	3.54
	Worli	7	23	81	76	40	8	6	7	3	...	...	...	252	...	281	...	3.01
Harbour, Docks, Railways and Homeless		...	1	1	...	4	...	...	...	...	...	...	...	6	...	13	...	.04
Total		44	138	474	637	346	88	69	34	34	39	30	34	1,437	550	1,987	2.02	2.42

TABLE of Deaths registered from MALARIA by Section and Month in 1916.

Ward.	SECTION.	3												4		5		Mean Ratio per 1,000 of Population during the previous 5 years.	
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Males.	Females.		
														Males.	Females.				
A	Upper Colaba ...	1	...	...	1	...	3	1	...	...	...	...	...	...	5	...	...	3.21	1.28
	Middle and Lower Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	8	...	...	40	.50
	Fort, South ...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	...	...	2.88	.86
	Fort, North ...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...	.23	.56
B	Esplanade ...	3	2	8	...	2	4	1	3	2	1	...	...	...	29	...	...	1.63	1.63
	Mandvi ...	1	1	1	...	...	1	...	...	...	1	...	...	...	6	...	...	.18	.48
	Chukla ...	...	...	1	1	...	...	...	2	...	1	1	...	...	6	...	...	.24	.28
	Unarkhadi	1	...	...	1	...	...	...	...	...	...	...	...	...	4	...	...	.08	.43
C	Dongri ...	...	...	1	...	...	...	...	...	2	1	...	1	...	6	...	...	.18	.70
	Market ...	1	...	...	1	...	...	...	1	2	3	...	3	...	10	...	...	.33	.36
	Dhobi Talao ...	1	1	...	...	2	1	...	1	1	1	1	4	...	14	...	...	.36	.36
	Fasawadi ...	1	...	...	1	1	...	...	1	1	...	...	2	...	9	...	...	.22	.14
D	Bhuleshwar ...	...	2	...	...	1	...	1	1	1	2	...	1	...	9	...	...	.24	.18
	Khara Talao ...	...	...	...	...	...	1	1	1	1	...	...	...	...	6	...	...	26	.26
	Kumbharwada ...	1	...	...	...	...	1	...	...	...	...	...	...	...	2	...	...	.07	.18
	Khetwadi ...	2	...	...	1	2	1	1	...	1	2	1	1	...	12	...	...	.37	.25
E	Girgaum ...	...	...	...	1	3	1	...	...	1	2	1	2	...	11	...	...	.35	.16
	Chowpati ...	...	...	...	1	...	1	...	...	1	2	...	...	...	11	...	...	.08	.17
	Walkeshwar ...	...	...	...	...	...	...	...	1	...	2	...	...	...	5	...	...	.46	.28
	Mahalakshmi ...	1	...	...	2	...	1	...	1	...	1	...	...	...	6	...	...	.22	.11
F	Mazagon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	.03	.19
	Tarwadi ...	3	1	...	1	...	1	...	3	4	2	3	2	...	19	...	...	.66	.66
	2nd Nagpada ...	...	...	...	...	...	...	...	...	1	1	2	...	...	3	...	...	.18	.18
	Kamathipura ...	1	1	...	...	...	...	1	...	...	...	...	...	...	3	...	...	.08	.05
G	Tardeo ...	...	...	...	1	...	...	...	...	1	2	...	...	...	2	...	...	.07	.13
	Ryehia ...	1	1	1	...	1	2	...	3	2	2	1	1	...	14	...	...	.13	.13
	1st Nagpada ...	1	1	1	...	...	...	...	...	1	...	...	...	...	4	...	...	.62	.15
	Parel ...	2	...	...	...	...	...	1	1	1	2	...	...	...	7	...	...	.15	.20
H	Sewri ...	2	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	.15	.10
	Sion ...	...	...	1	...	...	...	...	...	...	...	...	...	...	3	...	...	.09	.13
	Mahim ...	...	1	...	...	...	1	...	...	2	...	1	...	...	2	...	...	.06	.13
	Worli ...	...	...	...	...	1	...	1	1	1	...	...	1	...	7	...	...	.07	.06
Harbour, Docks, Railways and Homeless ...		1	...	...	1	...	...	...	...	1	...	...	...	...	6	...	...	.13	.11
Total		24	10	15	12	15	21	15	21	31	30	16	28	73	238	165	21	.24	.28

TABLE of Deaths registered from ENTERIC FEVER by Section and Month in 1916.

1	2	3												4		5		6		
														Total.		Death Ratio per 1,000 of Population.				
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Males.	Females.	Males.	Females.		Total.	
Ward.	SECTION.																		Mean Ratio per 1,000 of Population during the previous 5 years.	
A	Upper Colaba ...	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	3.88	.64
	Middle and Lower Colaba	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.20	.30
	Fort, South	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.59	.86
	Fort, North	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.66	.61
B	Esplanade ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.46	.22
	Mandvi ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.15	.12
	Chukla ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.15	.04
	Umarkhadi	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.15	.10
C	Dongri ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.11	.08
	Market ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.19	.16
	Dhobi Talao	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.15	.36
	Fanaswadi	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.14	.25
D	Bhuleswar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.08	.08
	Khara Talao	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.17	.04
	Kumbharwada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.03	.07
	Khetwadi	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.18	.28
E	Girgaum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.25	.29
	Chowpati	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.70	.35
	Walkeshwar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.09	.09
	Mahalakshmi	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.30	.22
F	Mazagon	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.09	.19
	Tarwadi	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.14	.21
	2nd Nagpada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.13	.04
	Kanattipura	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.05	.02
G	Tardeo	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.03	.14
	Byculla	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.09	.07
	1st Nagpada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.15	.31
	Parcel ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.04	.04
H	Sewri ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.06	.09
	Sion ...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.06	.09
	Mahim...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.09	.06
	Worli...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.05	.05
Harbour, Docks, Railways and Homeless ...		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.06	.11
Total		9	15	25	9	11	12	17	16	18	15	10	11	142	26	168	.07	.17	.14	

TABLE of Deaths registered from Fevers (excluding Malaria and Enteric Fever) by Section and Month in 1916.

1.	2	SECTION.	3												4		5		6			
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Males.	Females.	Total.	Males.		Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	{	Upper Colaba Middle and Lower Colaba Fort, South Fort, North Esplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.92
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.40
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.15
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.22
B	{	Mandvi Chukla Umarkhadi Dongri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.74
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.29
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.08
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.58
C	{	Market Dhobi Talao Fanaswadi Bhuleshwar Khara Talao Kumbharwada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.99
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.52
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.03
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.31
D	{	Khetwadi Girgaum Chowpati Walkeshwar Mahalakshmi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.90
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.50
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.30
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.86
E	{	Mazagon Tarwadi 2nd Nagpada Kamathipura Tardeo Byculla 1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.31
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.72
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.07
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.70
F	{	Parel Sewri Sion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.14
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.22
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.53
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6.51
G	{	Mahim Worli Harbour, Docks, Railways and Homeless	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5.76
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3.08
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.93
			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.50
Total	{	Total	119	136	188	188	165	143	132	140	132	116	132	144	1,053	633	1,735	1,64	2,01	1,77	2.58	

TABLE of Deaths registered from DIARRHOEA and DYSENTERY by Section and Month in 1916.

1	2	3												4		5		6	
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Death Ratio per 1,000 of Population.		Mean Ratio per 1,000 of Population during the previous 5 years.	
														Males.	Females.	Males.	Females.		
A	Upper Colaba ...	...	...	...	1	...	1	2	2	...	1	3	...	...	...	...	6.42	5.78	
	Middle and Lower Colaba ...	...	...	...	1	...	4	...	3	...	3	3	...	...	...	...	1.42	2.23	
	Fort, South ...	...	...	...	6	...	3	5	8	...	6	3	...	...	...	...	13.86	1.73	
	Fort, North ...	...	...	...	2	...	3	7	6	5	3	2	...	...	...	...	2.04	2.71	
B	Esplanade ...	...	...	...	5	...	10	15	12	5	7	7	10	...	...	...	5.23	4.61	
	Mandvi ...	...	...	...	6	...	5	4	2	3	3	2	...	...	...	...	1.20	1.98	
	Chukla ...	...	...	...	3	...	1	3	3	2	5	3	...	...	...	...	1.69	2.14	
	Umakbadi ...	...	...	...	21	...	6	10	9	8	1	13	...	...	...	...	3.10	3.67	
C	Dongri ...	...	...	...	9	...	1	3	1	4	1	6	...	...	...	...	1.90	3.56	
	Market ...	...	...	...	4	...	2	4	3	2	3	2	...	...	...	...	.99	1.78	
	Dhobi Talao ...	...	...	...	3	...	5	2	5	2	5	5	...	...	...	...	1.37	2.50	
	Fanswadi ...	...	...	...	8	...	3	3	2	5	4	...	...	...	...	...	1.60	3.59	
D	Bhuleswar ...	...	...	...	13	...	5	7	9	6	5	...	...	...	...	...	2.86	3.26	
	Khara Talao ...	...	...	...	6	...	9	2	1	5	5	9	...	...	...	...	2.21	2.85	
	Kumbharwada ...	...	...	...	4	...	8	6	5	4	4	3	...	...	...	...	2.20		
	Khetwadi ...	...	...	...	3	...	7	1	4	4	2	1	...	...	...	...	.98	1.91	
E	Girgaum ...	...	...	...	5	...	3	1	8	7	2	...	...	...	...	...	1.43	1.49	
	Chowpati ...	...	...	...	1	...	...	...	1	2	1	...	...	...	...	...	1.23	1.66	
	Walkeshwar ...	...	...	...	4	...	3	...	...	1	2	2	...	...	...	...	1.59	1.50	
	Malakshmi ...	...	...	...	6	...	5	6	...	5	5	2	...	...	...	...	2.47	3.26	
F	Mazagon ...	...	...	...	11	...	8	12	12	5	7	11	...	...	...	...	4.05	4.48	
	Tarwadi ...	...	...	...	16	...	17	9	28	18	11	18	...	...	...	...	6.57	7.56	
	2nd Nagpada ...	...	...	...	7	...	5	4	3	2	4	5	...	...	...	...	2.76	4.60	
	Kamatipura ...	...	...	...	9	...	12	5	3	11	10	7	...	...	...	...	2.63	3.70	
G	Tardeo ...	...	...	...	6	...	3	7	4	7	5	3	...	...	...	...	2.70	4.64	
	Byculla ...	...	...	...	11	...	5	5	24	25	26	18	...	...	...	...	4.06	4.97	
	1st Nagpada ...	...	...	...	31	...	12	21	24	4	...	...	...	...	...	...	2.18	2.65	
	Parel ...	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	1.45	3.35
H	Sewri ...	...	...	...	7	...	1	7	8	5	3	5	...	...	...	...	1.99	4.45	
	Sion ...	...	...	...	...	...	1	4	3	3	5	3	...	...	...	...	2.50	4.07	
	Mahim ...	...	...	...	3	...	8	12	13	9	3	9	...	...	...	...	3.93	4.75	
	Worli ...	...	...	...	13	...	6	17	34	11	14	13	...	...	...	...	3.52	3.11	
Harbour Docks, Railways and Homeless ...		...	...	...	21	...	1	4	1	...	...	1	...	...	...	...	.26	.26	
Total		217	208	247	230	234	160	200	241	180	161	180	162	1,402	1,018	2,420	2,99	2,47	3.28

TABLE of Deaths registered from TUBERCLE OF LUNGS and TUBERCULAR DISEASES by Section and Month in 1916.

Ward.	SECTION.	3												4			5			6
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Males.	Females.	Total.	Males.	Females.	Total.	
A	Upper Colaba ...	1	1	...	1	...	...	...	...	1	...	1	1	...	...	6	...	...	3.85	5.12
	Middle and Lower Colaba ...	2	2	...	...	...	...	...	...	...	5	1	4	...	...	20	...	...	1.01	1.42
	Fort, South ...	3	4	2	7	6	5	1	...	2	2	2	4	...	...	39	...	...	11.26	2.31
	Fort, North ...	8	6	6	5	7	4	7	8	6	6	6	7	...	...	76	...	...	2.99	2.99
B	Esplanade ...	4	5	6	9	5	8	6	4	4	7	10	3	...	...	71	...	...	3.99	3.09
	Mandvi ...	8	5	6	7	6	4	6	3	5	7	5	5	...	...	67	...	...	3.01	2.37
	Chunla ...	3	5	7	7	10	6	5	13	8	10	7	5	...	...	81	...	...	3.34	3.63
	Umakhadi ...	8	7	6	4	13	8	5	13	12	2	3	4	...	...	93	...	...	2.01	5.12
C	Dongri ...	3	...	...	1	1	...	3	4	1	1	...	1	...	...	15	...	...	.55	2.45
	Market ...	2	2	2	1	3	4	2	3	3	6	5	1	...	...	34	...	...	1.12	1.59
	Dhobi Talao ...	4	1	6	5	4	3	2	4	7	6	3	8	...	...	52	...	...	1.34	1.62
	Fanaswadi ...	4	4	2	3	5	3	5	1	1	2	1	2	...	...	34	...	...	1.24	1.35
D	Bhuleshwar ...	4	3	2	6	5	2	5	6	3	3	2	1	...	...	37	...	...	1.01	1.34
	Khara Talao ...	7	3	4	8	5	4	5	3	7	7	8	5	...	...	61	...	...	2.65	3.56
	Kumbharwada ...	4	3	2	2	3	3	2	9	7	5	2	2	...	...	44	...	...	1.58	2.92
	Khetwadi ...	10	7	6	4	16	7	9	6	7	13	6	2	...	...	86	...	...	2.69	3.09
E	Girgaum ...	11	10	1	4	8	5	5	5	6	5	3	10	...	...	73	...	...	2.37	2.95
	Chowpati ...	...	2	2	3	1	1	...	2	...	2	5	3	...	...	21	...	...	1.84	2.36
	Walkeshwar ...	2	...	3	1	...	1	1	1	...	...	...	1	...	...	10	...	...	.93	1.59
	Mahalakshmi ...	6	4	11	6	2	2	7	8	6	7	...	4	...	...	67	...	...	2.54	1.63
F	Mazagon ...	...	1	1	1	...	1	...	1	...	...	2	...	...	...	9	...	...	.29	1.86
	Tarwadi ...	5	4	10	8	6	9	7	8	11	9	10	...	...	...	95	...	...	3.34	3.76
	2nd Nagpada ...	6	4	16	12	6	9	11	7	12	9	6	5	...	...	103	...	...	4.74	3.87
	Kamathipura ...	19	10	18	17	4	11	17	18	14	16	15	15	...	...	174	...	...	4.73	5.06
G	Tardeo ...	9	7	11	1	10	6	5	6	9	9	6	8	...	...	92	...	...	3.31	3.13
	Byculla ...	5	13	16	6	10	9	7	6	10	8	8	10	...	...	108	...	...	1.43	1.35
	1st Nagpada ...	...	1	...	1	2	3	1	1	...	...	1	3	...	...	13	...	...	2.02	2.65
	Parel ...	5	1	...	8	3	4	11	4	4	9	3	3	...	...	50	...	...	1.09	1.18
H	Sewri ...	2	3	...	2	1	...	2	1	1	2	1	...	...	...	15	...	...	.78	.99
	Sion ...	2	2	4	3	2	3	3	3	3	2	5	5	...	...	37	...	...	1.20	1.40
	Mahim ...	3	2	4	2	6	3	5	4	8	6	3	4	...	...	50	...	...	1.63	1.93
	Worli ...	12	7	15	13	11	14	16	18	17	16	12	13	...	...	164	...	...	1.83	1.89
Harbour, Docks, Railways and Homeless ...		1	1	1	2	...	1	...	...	...	...	...	...	...	...	6	...	...	.13	.11
Total ...		162	132	171	160	155	142	162	167	170	188	146	147	887	1,015	1,902	1.33	2.99	1.94	2.29

SECTION.
2

1	2	3												4			5		6		
Ward.	SECTION.	SECTION.												Total.		Death Ratio per 1,000 of Population.		Mean Ratio per 1,000 of Population during the previous 5 years.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Males.	Females.	Males.	Females.				
A	Upper Colaba ...	...	1	...	2	5	2	...	2	3	1	2	...	...	...	...	11.56	10.28			
	Middle and Lower Colaba	...	15	16	15	14	11	10	12	9	7	7	10	...	...	...	6.70	6.70			
	Fort, South ...	...	4	4	5	3	3	8	4	5	3	3	6	...	...	...	15.88	3.46			
	Fort, North	...	20	15	21	26	21	12	16	12	13	13	17	...	...	...	7.79	7.79			
B	Esplanade ...	...	11	22	23	20	11	3	8	6	9	5	13	...	...	...	8.61	6.30			
	Mandvi ...	...	27	33	63	53	43	31	24	27	22	27	32	...	...	...	12.49	11.53			
	Chakla ...	...	23	36	26	37	33	16	48	20	24	22	31	...	...	...	13.53	11.63			
	Umakhadi ...	...	41	52	54	50	62	41	44	32	23	37	23	...	...	...	10.79	12.30			
C	Dongri ...	...	16	28	31	30	21	16	18	34	11	14	10	...	...	...	8.88	11.34			
	Market ...	...	14	30	34	25	23	20	21	16	22	25	17	...	...	...	8.88	7.12			
	Dhobi Talao	...	29	33	51	36	35	25	26	26	18	24	30	...	...	...	9.56	8.24			
	Panawadi	...	16	20	23	24	27	10	13	19	22	22	9	...	...	...	8.32	7.44			
D	Bhuleshwar	...	37	38	35	63	34	34	31	27	33	31	29	...	...	...	11.68	10.01			
	Khara Talao	...	14	25	33	31	22	22	16	17	22	18	21	...	...	...	11.79	10.05			
	Kambarwada	...	31	38	36	48	34	25	26	15	15	27	36	...	...	...	12.92	9.92			
	Khetwadi	...	21	22	41	35	15	17	20	17	14	21	19	...	...	...	8.23	7.42			
E	Girgaum	...	34	18	24	25	22	25	20	17	19	22	21	...	...	...	8.54	7.70			
	Chowpati	...	8	7	3	7	4	4	1	7	7	9	5	...	...	...	5.87	5.32			
	Walkeshwar	...	4	7	8	10	3	8	7	4	8	4	5	...	...	...	7.04	5.54			
	Mahalakshmi	...	16	13	25	15	22	9	25	20	12	22	16	...	...	...	8.13	6.08			
F	Mazagon	...	29	42	54	45	20	8	26	19	24	13	28	...	...	...	10.90	9.27			
	Tarwadi	...	38	24	57	42	32	25	24	30	28	33	23	...	...	...	13.86	11.08			
	2nd Nagpada	...	26	35	23	43	30	21	36	18	19	16	23	...	...	...	13.17	11.24			
	Kanathipura	...	49	47	58	51	32	38	31	31	29	34	40	...	...	...	13.03	10.88			
G	Tardeo	...	29	31	28	20	37	14	34	16	17	31	22	...	...	...	10.30	8.97			
	Byculla	...	93	103	134	104	85	61	75	72	77	67	71	...	...	...	13.82	11.28			
	1st Nagpada	...	5	4	6	7	4	5	3	2	3	4	3	...	...	...	7.95	7.95			
	Parel ...	...	44	49	75	63	41	25	31	39	36	32	31	...	...	...	10.99	7.58			
Total	Sewri ...	...	19	20	15	21	12	9	19	24	10	8	10	...	...	...	9.54	7.49			
	Sion ...	...	16	18	23	17	27	12	15	25	14	5	10	...	...	...	6.68	6.91			
	Mahim	...	37	35	38	24	25	32	21	21	24	20	13	...	...	...	10.03	9.41			
	Worli ...	...	51	71	87	86	73	58	57	61	52	50	35	...	...	...	8.15	8.10			
Harbour, Docks, Railways and Homeless ...		...	2	1	6	1	2	2	...	4	1	...	1	...	...	...	.48	.33			
Total		...	810	932	1,158	1,081	856	646	716	684	629	634	675	798	5,615	4,034	9,649	8.76	11.89	9.85	8.66

TABLE of Deaths registered from INJURIES by Section and Month in 1916.

Ward.	SECTION.	3												4		5		Mean Ratio per 1,000 of Population during the previous 5 years.	
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Males.	Females.		
														Males.	Females.				
A	Upper Colaba ...	3	2	6	6	13	6	1	1	...	...	...	1	...	...	39	...	25.04	3.21
	Middle and Lower Colaba ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.25	.66
	Fort, South ...	15	22	13	8	...	5	1	1	1	...	...	1	...	...	75	...	21.66	2.02
	Fort, North ...	2	3	3	2	6	3	6	4	4	...	...	6	...	...	82	...	1.25	.86
B	Esplanade ...	...	2	2	6	20	8	...	...	...	...	...	2	...	...	59	...	3.32	2.30
	Mandvi ...	1	...	2	1	1	...	2	3	1	3	1	...	...	...	15	...	.45	.45
	Chukla ...	...	1	2	2	...	5	1	...	...	...	...	1	...	...	...	...	.38	.49
	Umarkhadi ...	2	2	2	1	...	2	...	...	3	...	...	1	...	...	22	...	.48	.61
C	Dongri ...	1	3	3	2	1	...	...	4	1	2	1	...	...	...	18	...	.66	.62
	Market ...	1	2	2	...	2	1	...	1	2	3	2	2	...	...	18	...	.59	.56
	Dhobi Talao ...	2	...	3	3	4	5	1	2	1	1	3	2	...	...	22	...	.62	.40
	Fanaswadi ...	1	...	1	...	...	...	...	2	...	...	2	2	...	...	11	...	.40	.40
D	Bhuleshwar ...	3	1	1	2	1	...	1	...	...	...	...	1	...	...	12	...	.49	.52
	Khara Talao ...	2	3	1	1	...	1	1	1	...	...	2	1	...	...	11	...	.47	.73
	Kumbharwada ...	1	...	1	1	1	1	2	3	...	5	1	2	...	...	18	...	.64	.54
	Khetwadi ...	2	2	1	...	1	1	2	2	...	2	2	1	...	...	16	...	.50	.68
E	Girgaum ...	1	2	...	2	...	1	1	...	...	...	1	1	...	...	9	...	.29	.45
	Chowpati ...	...	...	...	...	1	1	1	1	...	...	...	2	...	...	7	...	.61	.61
	Walkeshwar ...	2	...	1	2	...	1	...	...	1	...	...	1	...	...	7	...	.65	.56
	Mahalakshmi ...	1	1	1	2	2	...	4	...	...	1	...	...	...	...	12	...	.45	.88
F	Mazagon ...	1	1	1	3	1	1	3	...	1	1	1	2	...	...	15	...	.49	.66
	Tarwadi ...	6	5	8	4	4	5	9	4	2	5	4	10	...	...	66	...	2.32	2.77
	2nd Nagpada ...	1	3	...	...	...	...	2	1	3	1	2	...	...	...	13	...	.59	.64
	Kamathipura ...	3	1	1	...	3	3	3	5	1	1	4	1	...	...	27	...	.73	.65
G	Tardeo... ..	3	4	1	1	1	1	...	2	2	2	...	...	...	...	15	...	.64	.41
	Byculla ...	4	2	4	...	2	2	4	5	5	5	1	...	...	...	41	...	.54	.53
	1st Nagpada ...	1	...	...	...	1	...	...	...	...	...	3	1	...	...	5	...	.77	1.09
	Parel ...	1	1	3	1	5	1	2	2	5	1	1	3	...	...	26	...	.67	.48
H	Sewri ...	...	...	...	...	...	1	4	1	...	...	2	1	...	...	9	...	.47	.52
	Sion ...	3	3	2	...	1	1	2	2	4	...	3	2	...	...	23	...	.74	.68
	Mahim ...	...	2	1	1	1	2	2	...	...	2	5	4	...	...	18	...	.59	.68
	Worli... ..	...	3	2	2	3	4	4	7	3	5	1	9	...	...	45	...	.50	.42
Harbour, Docks, Railways and Homeless ...		5	2	2	6	7	3	5	1	4	1	...	1	...	...	37	...	.82	.46
Total		70	73	72	59	86	64	70	55	48	47	52	66	600	162	762	47	.77	.86

TABLE of Deaths registered from OTHER CAUSES by Section and Month in 1916.

1	2	3												4		5		6	
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.		Death Ratio per 1,000 of Population.		Mean Ratio per 1,000 of Population during the previous 5 years.	
														Males.	Females.	Males.	Females.		
A	Upper Colaba ...	2	2	2	5	1	2	6	4	6	4	2	1	...	37	23.76	...	19.26	
	Middle and Lower Colaba ...	13	10	15	14	8	16	16	8	18	12	10	14	...	149	7.57	7.77		
	Fort, South ...	2	2	3	1	3	7	6	8	6	1	2	7	...	48	13.86	7.91		
	Fort, North ...	24	21	22	32	19	23	24	30	19	25	27	31	...	307	12.08	12.82		
B	Esplanade ...	10	17	9	20	25	11	18	19	18	12	17	14	...	190	10.69	7.82		
	Mandvi ...	25	18	37	20	12	16	15	27	26	28	27	36	...	277	8.34	11.17		
	Chukla ...	30	20	22	27	17	30	25	19	16	23	21	30	...	279	11.51	15.06		
	Umarkhadi ...	48	51	64	67	68	46	75	52	56	56	71	61	...	715	15.65	15.74		
C	Dongri ...	14	18	18	11	14	11	22	16	13	30	11	18	...	186	6.82	10.09		
	Market ...	14	12	20	14	17	16	22	25	16	17	30	22	...	225	7.45	8.31		
	Dhobi Talao ...	40	28	31	29	26	35	19	42	49	14	34	40	...	402	10.52	11.52		
	Fansavadi ...	20	27	21	28	25	23	30	24	20	33	21	29	...	301	10.98	10.10		
D	Bhuleswar ...	34	32	40	33	37	29	33	28	32	42	30	31	...	401	10.99	13.33		
	Khara Talao ...	23	27	32	33	27	19	26	27	35	30	33	19	...	331	14.40	17.62		
	Kumbharwada ...	19	18	22	21	15	28	38	31	33	25	29	33	...	302	10.90	13.33		
	Khetwadi ...	30	24	35	22	31	28	27	37	36	27	26	38	...	341	10.67	11.24		
E	Girgaum ...	35	41	25	33	27	27	22	28	30	31	29	39	...	357	11.59	11.98		
	Chowpati ...	14	10	6	7	3	9	6	10	22	10	12	11	...	120	10.52	11.05		
	Wakleshwar ...	11	7	10	13	10	7	5	11	14	9	7	15	...	119	11.18	9.49		
	Mahalakshmi ...	17	24	18	18	21	15	39	22	39	13	17	15	...	248	9.42	9.54		
F	Mazagon ...	19	11	19	24	22	18	18	20	23	21	12	16	...	226	7.51	10.54		
	Tarwadi ...	26	27	30	30	27	31	33	28	28	30	33	18	...	331	11.64	16.46		
	2nd Nagpada ...	30	26	23	23	27	14	23	15	25	30	22	29	...	292	13.45	18.11		
	Kanathipura ...	36	35	39	36	36	27	28	33	29	33	41	43	...	411	11.18	14.96		
G	Tardeo ...	34	20	31	20	26	21	23	33	24	17	25	33	...	296	10.66	13.04		
	Byenilla ...	102	68	88	89	82	87	79	65	60	72	71	74	...	937	12.43	13.80		
	1st Nagpada ...	3	8	4	5	10	7	9	4	6	3	4	5	...	68	10.60	11.23		
	Parcel ...	36	22	33	26	18	23	37	45	44	45	47	40	...	416	9.14	9.62		
H	Sewri ...	17	10	7	15	12	7	16	17	9	13	20	16	...	159	8.33	9.38		
	Sion ...	29	39	34	34	24	20	41	35	30	36	33	42	...	397	12.94	12.28		
	Mahim ...	40	24	25	22	27	32	31	31	27	29	26	32	...	349	11.44	10.26		
	Worli ...	74	93	74	88	72	64	75	106	61	77	76	93	...	953	10.63	8.83		
Harbour, Docks, railways and Homeless ...		2	2	2	4	5	4	3	1	1	1	3	4	...	32	.71	.53		
Total		853	804	851	859	794	743	873	895	856	871	869	939	5,488	10,207	8,538	13.88	10.42	11.37

COMPARATIVE TABLE of Deaths from some of the PRINCIPAL CAUSES during 1916, and the preceding 5 years.

YEAR.	Cholera.		Small-pox.		Measles.		Plague.		Malaria.		Enteric Fever.		Other Fevers.		Diarrhoea and Dysentery.		Tubercle of Lungs including other Tubercular Diseases.		Respiratory Diseases.		Injuries.		All other Causes.		Total Deaths.	
	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.
1911 ..	128	.12	443	.45	662	.66	4,006	4.09	334	.34	145	.14	2,667	2.72	3,075	3.13	2,694	2.75	8,640	8.82	702	.71	11,480	11.72	34,961	35.69
1912 ..	1,790	1.83	979	.99	210	.21	1,717	1.75	360	.36	152	.15	3,073	3.13	4,544	4.63	2,794	2.85	9,686	9.88	680	.69	12,969	13.24	38,954	39.77
1913 ..	125	.12	212	.21	222	.22	2,609	2.66	361	.26	154	.15	2,628	2.68	3,173	3.23	2,152	2.19	8,604	8.78	660	.67	11,006	11.23	31,806	32.47
1914 ..	221	.22	252	.25	263	.26	2,941	3.00	213	.21	147	.15	2,517	2.56	3,102	3.16	1,889	1.92	8,724	8.91	608	.62	10,966	11.19	31,853	32.52
1915 ..	16	.01	359	.36	70	.07	599	.61	208	.21	109	.11	1,774	1.81	2,195	2.24	1,710	1.74	6,770	6.91	606	.61	9,265	9.45	23,681	24.17
Mean of the preceding 5 years.	455	.46	419	.45	283	.28	2,375	2.43	275	.28	141	.14	2,532	2.58	3,218	3.28	2,248	2.29	8,487	8.66	651	.66	11,137	11.37	32,351	32.92
1916 ..	141	.14	1,021	1.04	344	.35	1,987	2.02	238	.24	168	.17	1,735	1.77	2,420	2.47	1,902	1.94	9,649	9.85	762	.77	10,207	10.42	30,574	31.21

SPECIFIC CAUSES of DEATHS in 1916 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
GENERAL DISEASES.														
3	Blackwater Fever ...	...	...	...	...	...	...	1	...	...	...	...	...	1
4	Beri-beri ...	...	...	...	...	...	...	...	1	...	...	...	...	1
5	Cerebrospinal Fever ...	...	1	...	2	1	1	...	1	...	...	2	...	8
6	Chicken-pox ...	1	2	8	4	2	4	1	...	1	...	...	...	23
7	Cholera ...	1	...	3	1	2	7	39	43	23	5	12	5	141
10	Diphtheria ...	...	...	1	1	1	...	1	...	...	...	1	...	5
11	Dysentery ...	58	67	60	67	57	58	65	103	72	64	63	57	796
13	Enteric Fever ...	9	15	25	9	11	12	17	16	18	15	10	11	168
15	Erysipelas ...	...	...	1	...	2	3	3	4	1	...	1	...	15
20	Gonorrhœa ...	...	1	...	...	...	...	...	...	...	...	...	...	1
21	Influenza ...	...	...	...	...	1	...	...	1	...	3	1	...	6
22	Kala Azar ...	...	...	...	...	...	...	...	...	...	...	...	...	1
23	Leprosy ...	9	17	13	4	5	2	6	6	8	5	6	6	87
25	Malarial Fever ...	24	10	15	12	15	21	15	21	31	30	16	28	238
	Ague and Remittent Fever ...	119	135	187	187	165	143	132	140	152	116	132	144	1,732
26	Measles ...	39	46	87	72	51	19	8	4	6	1	3	8	344
29	Mumps ...	...	...	2	...	2	...	...	...	1	...	...	...	5
	Parotitis ...	...	...	...	...	...	...	...	...	...	...	...	...	1
30	Phagedæna ...	...	...	...	...	...	1	...	1	...	1	2	...	5
31	Plague ...	44	188	474	657	346	88	69	34	34	39	30	34	1,987
33	Pyæmia ...	...	3	...	...	2	2	3	3	1	3	1	1	18
35	Rabies (Hydrophobia) ...	1	1	1	1	...	2	...	...	...	...	1	1	8
36	Relapsing Fever ...	...	1	1	1	...	...	...	...	...	...	...	...	3
37	Rheumatic Fever ...	1	...	...	1	2	...	1	3	1	1	2	2	14
	Rheumatism ...	1	4	6	17	4	3	2	7	9	9	5	2	69
39	Septicæmia ...	3	4	4	5	6	5	7	5	4	3	4	4	54
	Puerperal ...	18	16	23	20	16	19	24	16	22	22	13	15	229
	Septic Poisoning ...	2	...	...	...	...	...	...	2	...	...	...	...	4
	Fever ...	1	4	3	2	4	6	...	2	...	3	...	1	28
	Pneumonia ...	...	1	...	...	...	1	...	...	...	...	1	...	3
	Parotitis ...	...	1	...	...	...	1	...	...	...	...	...	...	2
	Broncho-Pneumonia ...	...	...	...	1	...	...	...	1	...	...	...	...	2
	Ulcer ...	...	...	...	1	...	...	1	...	...	...	...	...	2
	Endocarditis ...	...	...	...	1	...	...	...	1	...	...	...	...	2
	Gangrene ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Diarrhœa ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Coma ...	...	...	...	...	...	2	...	...	...	...	...	...	2
	Cerebritis ...	...	...	...	...	...	...	1	...	...	...	...	...	1
	Meningitis ...	...	...	...	...	...	...	1	...	...	...	...	...	1
	Hydrocele ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	Enteritis ...	1	...	...	...	...	...	...	1	...	...	...	...	1
	Blood Poisoning ...	1	...	...	...	...	...	...	...	...	...	...	...	1
41	Small-pox ...	84	180	340	198	107	65	24	11	5	6	...	1	1,021
42	Syphilis ...	6	3	3	4	6	3	1	...	1	9	2	6	44
(a)	Primary ...	1	...	...	...	...	...	...	...	...	...	...	...	1
(b)	Secondary ...	...	1	1	1	1	...	2	1	...	...	1	...	8
(c)	Inherited ...	1	...	...	...	...	...	...	...	...	...	...	...	1
	Tertiary ...	...	...	1	1	...	1	...	1	1	...	1	1	7
	Congenital ...	2	...	1	...	...	1	1	1	1	2	2	...	11
	Syphilitic Ulcer ...	1	...	...	...	...	...	...	...	...	...	...	1	2
	Glands Suppuratory ...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Stricture of Rectum ...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Endarteritis ...	...	...	...	1	...	...	...	...	...	...	...	1	2
	Diarrhœa ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Gonorrhœa ...	...	...	...	...	...	...	1	...	...	...	...	...	1
	Rheumatism ...	...	...	...	...	...	...	...	1	...	...	1	2	4
	Caries Spine ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	Cachexia ...	...	...	...	...	...	...	...	...	...	1	...	...	1
	Arthritis ...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Endocarditis ...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Lues ...	...	...	...	...	...	...	...	...	...	1	...	...	1
43	Tetanus ...	12	11	15	15	8	14	6	5	5	7	7	12	117
44	Tuberculosis ...	9	9	12	12	9	7	8	9	11	11	11	5	113
	Tubercle of Lungs ...	19	23	31	27	23	28	21	20	20	32	22	19	285
	Tubercular Ulcers ...	1	...	...	...	...	...	...	...	...	...	...	...	1
	Meningitis ...	4	...	1	...	...	...	...	1	1	...	1	...	8
	Diarrhœa ...	3	3	1	2	4	1	2	5	2	2	1	...	26
	Peritonitis ...	2	5	...	1	...	...	1	1	...	2	...	1	17
	Glands ...	2	1	1	...	1	...	...	3	1	...	1	...	9
	Caries ...	1	...	...	...	...	...	...	1	...	...	...	...	2
	" of Spine ...	...	...	1	1	...	...	1	1	...	...	...	...	4
	" of Leg ...	...	...	...	...	...	...	...	...	1	...	...	...	1
	" Abdomen ...	1	...	...	...	...	...	1	1	...	...	...	...	3
	Spine ...	...	1	...	...	...	1	...	...	...	...	...	...	2
	Enteritis ...	...	2	...	...	1	...	...	1	...	1	...	...	5
	Laryngitis ...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Knee Joints ...	...	...	1	...	...	...	...	...	1	...	...	...	2
	Bowels ...	...	...	1	...	3	...	...	...	1	1	...	...	6
	Ankle Joints ...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Right and Left Apex ...	...	...	...	3	1	...	...	...	...	...	...	...	4
	Second rib, right side ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Bones ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Hip Joints ...	...	...	...	...	1	1	...	...	...	2	...	...	4
	Sinus ...	...	...	...	...	...	1	...	...	1	...	...	...	2

20—continued.

SPECIFIC CAUSES of DEATHS in 1916 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—continued.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	Tubercular Intestines	...	...	...	...	...	...	3	...	1	...	...	1	5
	" Adhesions of Intestines	...	...	...	...	...	...	1	...	...	...	...	...	1
	" Nephritis	...	...	...	...	...	...	1	...	...	...	...	...	1
	" Dysentery	...	...	...	...	...	...	1	...	...	1	...	...	2
	Scrofula	1	1	3	4	3	1	1	...	5	...	...	1	23
	Tabes mesenterica	...	...	1	...	...	2	1	...	...	...	...	...	4
47.	Whooping-cough	1	2	1	...	3	...	...	...	...	...	1	...	7
49	Yellow Fever	...	...	...	...	...	...	...	...	...	...	...	1	1
50.	Alcoholism	...	...	1	...	...	...	1	...	1	...	1	2	6
61	Anæmia	48	35	28	36	31	25	20	20	20	20	25	15	323
63	" Pernicious	7	10	8	3	1	6	4	6	4	10	7	7	73
	Anæmic Dyspepsia	...	...	...	...	1	...	...	1	...	...	...	...	2
64	Chlorosis	...	...	...	...	...	...	...	...	...	1	...	...	1
66	Diabetes	6	8	5	4	5	5	7	3	7	5	2	3	55
	Diabetic Coma	...	...	...	...	1	...	1	...	...	...	1	...	3
	" Carbuncle	...	...	...	...	...	1	1	1	1	...	...	...	5
	" Gangrene	...	...	...	...	...	...	1	...	...	...	...	1	2
70	Leuchæmia	...	...	...	...	2	...	...	...	1	...	...	...	3
71	Lymphadenoma	...	...	...	...	1	...	...	...	...	...	...	1	2
72	Myxœdema	...	...	...	...	...	...	...	1	...	...	...	...	1
75	Purpura	...	...	2	...	...	...	1	...	...	...	...	...	3
76	Bickets	69	70	72	60	68	68	62	59	61	55	56	70	770
77	Scurvy	...	1	...	2	3	1	3	1	3	1	1	...	16
82	Worms	2	1	4	7	4	5	3	8	1	...	4	2	41
	Toxæmic Fever	1	...	...	...	...	...	...	...	...	...	...	...	1
	Sarcoma	...	2	...	1	1	...	...	...	...	...	...	...	4
	Tumours	...	...	...	...	1	1	...	...	2	...	...	1	5
	" Heart	1	...	...	...	...	...	...	...	...	...	...	...	1
	" Ovarian	1	...	...	...	...	...	...	...	...	...	...	...	1
	Tumours Colon	...	2	...	...	...	...	...	...	...	...	...	...	2
	" Brain	...	1	...	...	...	...	...	...	...	...	...	...	1
	" Abdominal	...	...	2	...	...	1	...	...	...	1	...	...	4
	" Neck	...	...	...	1	1	...	...	...	...	...	...	...	2
	" Uterine	...	...	...	1	...	...	...	...	1	1	1	1	4
	" Bladder	...	...	...	...	...	...	...	...	1	...	...	...	1
	" Intra Thoracic	...	...	...	...	...	...	...	...	1	...	...	...	1
	Cerebral type of Fever	...	...	...	...	...	...	...	...	...	1	...	...	1
	Cancer	7	5	5	7	8	9	7	...	2	1	...	5	70
	Debility	180	168	159	161	171	128	205	234	216	196	202	196	2215
	Old Age	80	104	74	86	64	55	72	87	109	117	100	154	1102
DISEASES OF THE NERVOUS SYSTEM.														
86(b)	Polynenritis	...	...	...	...	...	...	...	2	...	...	...	...	2
88	Meningitis	1	6	...	5	8	8	8	3	4	3	...	4	47
89	Hæmorrhage (Membranes)	...	...	1	1	...	...	...	1	...	2	...	...	5
90	Myelitis, Transverse, etc.	...	...	2	...	2	...	...	...	1	...	1	...	6
94(d)	Locomotor Ataxia	...	...	...	...	1	...	...	...	...	...	...	1	2
97	Meningitis, cerebral	1	...	...	2	...	...	1	2	...	...	...	...	6
	Cerebral Embolism	1	...	...	1	...	1	...	...	...	2	...	...	5
	" Thrombosis	1	...	...	...	1	...	...	...	...	...	...	1	3
	" Affection	...	...	...	1	...	...	...	...	...	...	...	...	1
99	Eucephalitis	...	...	...	...	...	...	...	1	2	...	1	1	5
100	Abscess (Brain)	...	...	...	1	...	...	...	...	...	...	...	...	1
	Brain Fever	...	...	...	1	...	...	...	...	...	...	...	...	1
101	Cerebral Hæmorrhage	7	7	5	5	7	2	6	3	5	4	6	6	63
102	" Congestion	...	...	1	2	...	...	...	...	1	...	...	...	4
103	" Anæmia	...	...	...	1	...	...	...	...	...	...	...	...	1
105	Lateral Sclerosis	...	...	...	...	...	...	1	...	...	...	...	...	1
108	Hydrocephalus	...	...	...	1	...	...	...	...	...	2	...	...	3
109	Apoplexy	1	2	...	3	2	4	2	4	...	1	1	5	25
110	Paralysis	6	11	7	4	5	3	8	11	3	3	4	5	70
(a)	Paraplegia	2	2	2	1	1	2	...	1	1	1	3	1	17
(b)	Hemiplegia	20	18	14	14	9	10	10	10	18	10	11	12	156

20—continued.

SPECIFIC CAUSES of DEATHS in 1916 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—continued.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
114	Parkinson's Disease...	...	...	...	...	...	...	...	...	...	...	...	1	1
115	Chorea ...	...	1	...	...	...	...	...	1	...	...	1	...	3
123	Convulsions ...	119	106	127	134	116	112	138	117	108	121	137	125	1,460
	„ Puerperal ...	1	5	2	3	...	1	1	...	...	3	...	1	21
124	Epilepsy ...	3	2	...	1	2	4	...	3	3	...	1	1	22
125	Laryngismus Stridulus ...	...	...	...	...	...	...	...	...	...	...	...	1	1
133	Hysteria ...	...	...	...	...	...	...	...	...	1	...	...	...	1
141	Hiccup ...	...	...	...	...	...	1	...	...	...	...	...	...	1
143	Neurasthenia ...	...	1	...	1	...	...	...	...	...	...	...	...	2
145(b)	Mania Puerperal ...	...	...	1	...	...	...	...	...	...	...	...	...	1
147	Insanity ...	1	...	...	1	...	...	...	1	1	2	1	1	8
165	Dementia ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	Fits ...	1	...	...	...	...	...	2	...	1	...	...	...	4
	Sciatica ...	...	1	...	...	...	1	...	...	...	...	...	...	2
	Intra cranial Disease ...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Weakness of Mind ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Cerebritis ...	...	...	...	...	...	...	...	1	...	...	...	...	1
DISEASES OF THE EYE, EAR & NOSE														
265	Inflammation of Tympanum ...	1	...	...	...	...	...	...	...	...	...	...	...	1
280	Epistaxis ...	...	...	...	...	...	1	...	...	...	...	...	...	1
	Polypus Ear ...	...	...	1	...	...	...	...	...	...	...	...	...	1
DISEASES OF THE CIRCULATORY SYSTEM.														
286 ³	Pericarditis ...	...	...	...	...	...	...	...	...	1	1	...	...	2
289	Hydropericardium ...	1	...	...	...	...	...	...	...	1	...	...	...	2
292	Endocarditis ...	...	...	1	1	...	...	...	...	2	...	1	...	5
293	Valvular Disease of Heart ...	16	10	15	11	12	10	10	21	20	15	14	23	177
293(1)	Mitral Regurgitation ...	1	1	2	2	1	...	...	...	...	...	...	...	7
(2)	Aortic Regurgitation ...	1	...	2	...	...	5	1	3	...	1	...	2	15
(3)	Tricuspid ...	...	...	...	...	...	...	...	...	...	...	1	...	1
295	Cardiac degeneration ...	...	...	...	1	...	...	...	...	...	...	1	...	2
	„ Failure ...	16	6	9	5	6	7	10	8	5	8	5	9	94
	„ Asthma ...	...	1	...	...	1	1	1	...	...	...	1	...	5
	„ Syncope ...	...	...	1	...	...	1	...	...	...	...	...	...	2
	„ Dropsy ...	...	...	...	...	...	...	...	...	1	...	...	...	1
295(a)	Degeneration of Heart (Fatty) ...	1	...	2	...	1	...	...	...	...	...	...	...	4
	Degeneration of Heart (Athero- mic.) ...	...	...	1	...	...	...	...	...	...	...	...	...	1
296	Atrophy of Heart ...	...	...	1	...	...	...	...	...	...	...	...	...	1
298	Dilatation of Heart ...	2	1	1	1	...	...	...	2	...	...	2	3	12
299	Fatty Heart ...	...	...	...	...	1	1	...	1	...	...	1	1	5
301	Aneurysm (of Heart) ...	...	...	1	3	...	...	...	1	...	...	2	1	8
301(a)	Clots in Heart (Thrombus) ...	...	...	1	...	...	1	...	2	1	...	...	...	5
302	Angina Pectoris ...	1	1	4	2	4	2	1	1	4	2	2	1	25
308	Arterial Sclerosis ...	1	1	1	3	1	1	...	1	...	1	1	1	12
312(b)	Calcareous Degeneration of Ar- teries.	...	...	...	1	...	...	...	...	...	...	...	...	1
316	Aneurysm of Arteries ...	2	...	...	...	1	...	...	...	...	2	...	2	7
322(2)	Embolism (Arteries) ...	1	...	...	...	1	...	...	1	1	1	2	...	7
324	Phlebitis ...	...	...	...	1	...	1	...	...	...	...	...	...	2
	Aortic Insufficiency ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	„ Stenosis ...	...	...	...	...	...	...	...	...	1	...	...	...	1

20—continued.

SPECIFIC CAUSES of DEATHS in 1916 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—continued.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
DISEASES OF THE RESPIRATORY SYSTEM.														
338	Asthma	105	122	125	117	77	65	82	84	96	109	119	109	1,210
339	Laryngitis	1	1	...	...	1	...	2	...	...	...	1	1	7
340	Ulceration of the Larynx ...	...	...	...	...	...	...	...	1	...	...	...	...	1
404	Bronchitis	84	99	158	126	123	80	98	76	73	69	56	63	1,105
	" Acute	17	24	17	21	12	11	15	13	15	15	20	48	223
	" Chronic	114	132	117	105	65	69	73	75	58	75	78	113	1,099
	" Capillary	63	58	87	106	96	83	79	63	37	37	45	41	795
	" Catarrhal	...	...	...	1	...	...	...	...	...	1	...	...	2
408	Bronchiectasis	...	...	...	...	...	...	1	...	1	...	...	...	2
410	Congestion of the Lungs ...	...	...	...	...	...	...	...	...	1	...	...	...	1
411	Hæmoptysis	...	...	...	...	...	...	...	2	...	...	...	1	3
412	Edema of the Lungs	1	1	1	...	...	...	1	1	...	...	...	1	6
	Pneumonia	257	302	434	374	285	165	177	184	180	185	193	246	2,962
413	" Broncho	141	177	196	216	178	158	170	173	131	155	147	169	2,011
	" Pleuro	4	1	...	1	1	1	...	2	...	...	1	...	11
	" Lobar	7	7	8	3	4	7	7	2	3	3	4	9	64
	" Double	6	5	8	4	7	1	1	3	2	4	6	6	53
	" Croupous	...	...	...	...	1	...	...	...	...	...	...	1	2
414	Abscess of Lungs	1	...	...	...	1	...	...	...	...	...	...	...	2
419	Phthisis	120	90	120	114	106	103	122	126	129	136	108	121	1,395
421	Emphysema	2	1	3	4	4	4	4	2	2	3	2	4	35
422	Atelectasis	1	1	1	1	...	...	2	2	3	5	1	1	18
425	Pleurisy	4	1	3	2	1	2	3	...	2	2	2	2	24
429	Pneumothorax	2	...	...	...	...	...	1	...	...	...	...	2	5
	Obstruction to breathing due to inflammation in joint of trocher.	...	...	...	...	...	...	...	1	...	...	...	...	1
	Dyspnoea	...	...	...	...	...	...	...	...	...	1	...	1	2
DISEASES OF THE DIGESTIVE SYSTEM.														
436	Stomatitis	...	...	...	2	2	1	2	...	1	...	...	2	10
438	Cancerum oris	...	1	...	1	...	1	...	1	1	...	...	...	5
439	Necrosis of the Jaws	...	...	...	...	...	...	1	...	1	...	...	...	1
440	Disorders of dentition	25	17	23	31	26	14	45	27	16	14	26	31	295
450	Gum-boil	...	...	...	...	...	...	...	...	1	...	...	...	1
452	Pyorrhoea alveolaris	...	...	...	...	...	1	...	1	...	...	...	...	2
474	Ulceration of the palate ...	...	...	1	...	...	...	...	...	...	...	...	...	1
475	Tonsillitis	...	...	...	...	...	...	...	2	1	...	2	...	5
(a)	Follicular	1	...	...	...	...	...	...	...	...	...	...	...	1
(c)	Peritonsillar abscess	...	...	...	...	...	1	...	...	...	...	...	...	1
	Ludwig's angina	...	2	...	...	...	...	...	...	...	...	...	...	2
484	Post-pharyngeal Abscess ...	...	...	...	...	...	...	...	...	...	...	1	...	1
487	Stricture of Oesophagus ...	...	...	...	1	...	...	...	...	...	...	...	...	1
489	Gastritis	1	2	...	1	...	6	4	...	...	1	2	...	17
490	Ulceration of the Stomach ...	1	1	...	...	...	...	1	...	...	1	...	...	4
(b)	Peptic Ulcer	1	...	...	...	...	...	...	...	...	...	...	...	1
492	Hæmorrhage in the Stomach ...	...	...	...	...	...	1	...	1	...	1	...	...	3
(b)	Dilatation of the Stomach ...	...	1	...	...	...	...	...	...	...	...	...	...	1
498	Stomach trouble	1	...	...	...	...	...	...	...	...	...	...	...	1
	Disease of the Pyloric end of the Stomach	...	...	1	...	...	...	...	...	...	...	...	...	1
	Perforation of Stomach	...	...	...	...	...	...	...	...	...	...	1	...	1
499	Dyspepsia	1	2	1	1	2	4	3	4	...	3	2	...	25
506	Vomiting	1	...	...	3	1	...	...	...	...	1	...	...	6
515	Inflammation of intestine ...	...	...	...	...	...	...	1	...	...	...	...	...	1
	Volvulus Small intestine ...	...	1	...	...	...	...	...	...	...	...	...	...	1
	Abscess of the Appendix ...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Perforation of the Appendix ...	...	...	1	...	...	...	...	1	...	...	...	...	2
	Intestinal Sepsis	...	...	...	...	1	1	1	...	...	...	...	...	3
	Adhesions of the intestines ...	...	...	...	...	1	1	...	...	...	...	...	...	2

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
515(1)	Enteritis	7	6	9	8	8	13	13	18	5	14	13	9	123
	" Mucous	1	..	1	..	1	..	..	1	..	..	..	4	4
	" Gastric	..	6	7	3	4	5	9	8	2	3	3	3	53
	Ankylostomiasis	..	..	2	..	1	..	..	..	..	..	..	..	3
515(2)	Appendicitis	1	1	3	..	1	2	1	3	3	1	4	4	24
	Perityphlitic Abscess	..	..	..	..	..	..	..	..	..	..	..	1	1
515(3)	Colitis	..	1	..	..	3	1	4	1	..	..	3	..	13
	Catarrhic Ulceration	2	..	..	..	..	..	..	..	..	..	..	..	2
	Ileo Colitis	..	..	..	..	..	..	..	..	1	..	..	..	1
516(e)	Fistula... ..	..	..	..	1	..	..	..	..	1	1	..	1	4
526	Sprue	7	6	9	8	10	7	12	7	5	12	8	10	101
528	Hernia	..	..	..	..	..	..	1	..	1	..	..	1	3
528(2)	Hernia Ventral	..	..	..	..	..	..	..	1	..	..	..	..	3
528(3)	" Umbilical	1	..	..	..	1	..	..	..	..	1	..	..	3
(5)	" Inguinal	1	..	..	..	..	1	..	..	..	..	..	..	2
	" Strangulated	..	2	2	2	2	1	..	..	1	1	2	1	17
530	Intussusception	..	1	..	..	3	2	1	..	..	1	..	..	8
536	Obstruction of the Intestines	5	2	2	2	2	3	4	3	4	6	6	4	43
537	Perforation "	..	1	..	..	..	..	1	1	..	..	..	..	3
540	Diarrhoea	159	141	187	163	177	102	135	183	108	97	117	105	1624
541	Constipation... ..	..	..	..	1	..	..	1	1	..	..	1	2	6
542	Tympanites	1	..	..	..	..	..	..	..	..	..	..	..	1
543	Paresis of the Intestines	..	..	..	..	..	..	..	..	..	..	..	1	1
544	Colic	1	..	..	2	1	..	2	2	..	..	..	1	9
550	Fistula in Ano	..	..	..	..	..	..	2	..	..	2	..	..	4
554	Gangrene of the Rectum	..	..	..	1	..	..	..	..	1	..	..	..	2
556	Piles	2	..	3	..	2	..	3	..	1	..	1	1	13
558	Stricture of the Rectum	..	..	..	..	..	1	1	..	..	..	..	..	2
568	Hepatitis	15	8	17	15	14	7	9	10	8	12	10	16	141
568(b)	Cirrhosis of the liver	4	3	3	8	4	8	4	7	5	4	4	11	65
	" Biliary	..	..	..	..	..	..	..	..	1	..	..	..	1
570	Atrophy (acute yellow) of the liver.	..	..	..	..	1	..	..	..	..	..	..	..	1
571	Congestion of the liver	1	..	1	..	..	..	..	..	..	1	..	1	4
572	Degeneration of the liver... ..	1	..	..	..	..	..	..	..	..	..	..	..	1
575	Jaundice	2	1	4	2	..	2	1	4	2	1	1	4	24
	Infantile liver	..	..	..	1	..	..	..	..	..	..	..	..	1
	Disease of the liver... ..	..	..	..	..	..	..	..	..	..	..	2	..	2
	Enlarged Liver	2	4	..	1	1	..	3	2	1	1	1	1	17
	Abscess of the liver... ..	6	5	4	5	1</								

20—continued.

SPECIFIC CAUSES of DEATHS in 1916 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—continued.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
DISEASES OF THE URINARY SYSTEM.														
651	Acute Nephritis	1	1	3	6	5	2	4	...	5	2	1	2	32
651(1)	Chronic Nephritis	2	1	3	1	...	...	1	1	...	...	...	...	9
652	Bright's disease	18	25	13	11	15	7	13	11	6	15	14	14	172
652(2)	Interstitial Nephritis	...	...	...	...	2	1	...	...	...	...	...	1	4
653	Lardaceous Disease of kidney	...	1	1	3	...	...	...	1	1	...	...	1	8
654	Abscess of kidney	...	...	...	...	...	...	1	...	...	...	...	...	1
654(a)	Pyonephrosis... ..	...	...	1	1	...	1	1	...	1	...	...	...	5
655	Pyelitis	...	...	...	...	1	...	...	1	...	...	...	...	2
656	Calculus	...	...	1	1	...	1	3	1	...	1	...	1	9
676	Cystitis	1	...	...	2	1	...	2	1	1	1	4	1	14
689	Retention of Urine	...	...	...	...	...	1	1	...	...	...	...	...	2
692	Suppression of Urine	...	...	...	...	...	1	1	...	...	...	...	...	2
697	Albuminuria	3	1	1	2	2	3	1	1	1	...	...	1	13
	Uræmia	2	...	...	...	1	3	1	1	1	1	2	3	15
	Pyuria... ..	...	...	...	1	...	...	...	...	...	...	...	...	1
DISEASES OF THE GENERATIVE SYSTEM.														
712	Stricture of Urethra... ..	...	...	...	...	...	2	...	1	...	...	...	...	3
715	Extravasation of Urine	...	...	...	1	...	...	...	...	...	1	...	1	3
720	Chronic enlargement of Prostate	...	...	1	...	...	...	...	...	...	...	...	...	1
733	Gangrene of Penis	1	...	...	...	...	1	...	...	...	1	...	1	4
742	Sloughing of Scrotum	...	...	...	...	...	...	...	...	...	...	1	1	2
754	Hydrocele	...	...	...	1	...	...	...	...	...	...	...	...	1
757(1)	Orchitis	...	...	1	...	...	...	...	1	...	...	...	...	2
772	Salpingitis	...	...	1	...	...	...	...	...	...	...	...	...	1
773(b)	Pyosalpinx	...	...	...	...	...	...	...	...	1	...	...	...	1
783(a)	Pelvic Peritonitis	...	...	...	...	...	...	...	...	1	...	...	...	1
783(b)	" Cellulitis	1	...	...	...	1	...	...	...	...	...	...	1	3
785	Metritis	...	1	...	1	1	...	...	...	1	1	...	1	6
785(a)	Endometritis... ..	1	...	...	...	1	...	...	...	...	...	...	...	2
788	Hæmorrhage of the Uterus	...	...	1	...	...	...	...	...	1	...	...	2	4
821	Menorrhagia	...	...	...	...	...	...	...	1	...	...	...	1	2
823	Leucorrhœa	...	...	...	...	...	1	...	...	...	1	...	1	3
834	Abortion	...	...	2	2	1	1	...	...	...	...	...	2	8
839	Inertia of the Uterus	...	...	1	...	...	...	...	...	...	...	...	...	1
849	Still Born	114	107	124	111	112	135	140	162	177	166	176	163	1,687
850	Asphyxia Neonatorum	...	...	...	...	...	...	...	1	...	3	1	3	8
	" Pallidus	...	...	...	...	...	...	...	1	...	...	...	...	1
	" Infantile	...	1	...	...	...	...	...	...	...	...	1	...	2
	Asphyxiated Condition	...	...	...	...	...	1	...	...	...	...	1	...	2
852	Premature Birth	30	17	23	19	20	25	28	27	43	44	45	36	357
853	Post-partum Hæmorrhage... ..	1	...	3	1	3	...	2	3	2	7	1	...	23
861	Pelvic Abscess	1	...	...	...	...	...	...	...	...	...	1	...	2
870(a)	Sudden death after delivery from Nervous exhaustion.	...	4	4	4	1	2	3	3	3	5	1	2	32
(b)	" " cardiac embolism	1	...	...	3	...	1	...	1	1	2	...	...	9
875(b)	Chronic Abscess of breast	...	1	...	...	...	...	...	...	...	1	...	...	2
	Ovarian Disease	...	...	...	1	...	...	...	...	...	...	...	...	1
	Uterine do.	...	...	...	...	1	...	...	...	...	...	...	...	1
	Labour	1	...	...	2	1	...	4	1	3	2	2	1	17
	Placenta Prævia	...	2	...	...	1	...	...	1	2	1	...	1	8
	Concealed accidental hæmorrhage	...	...	...	...	...	1	...	...	...	...	...	...	1
	Cordiac Syncope after Labour	...	...	...	1	...	...	...	...	...	...	...	...	1
	Pregnancy	...	...	1	...	...	...	...	...	...	2	1	2	6
	Pneumonia following child birth	...	...	...	...	...	...	...	...	...	...	1	...	1
	Craniotomy	...	...	...	...	...	...	...	...	...	...	1	...	1
	Diarrhœa after Parturition	...	...	...	...	...	...	...	...	...	...	1	...	1
DISEASES OF THE ORGANS OF LOCOMOTION AND CONNECTIVE TISSUE.														
835	Chronic Osteo-myelitis	...	...	...	1	2	...	...	...	...	...	...	...	3
837	Caries of Bones	...	1	...	...	...	...	...	...	...	...	...	1	2
	" " Tarsus	...	1	...	...	...	...	...	...	...	...	...	...	1
	" " Joints	1	...	1	...	...	...	...	...	...	...	...	...	2
	Inflammation of Knee Joint	...	...	...	...	...	...	...	...	1	...	...	...	1
888	Necrosis of Bones	...	...	1	...	...	...	1	1	...	...	...	...	3
889	Osteomalacia	...	...	...	...	...	2	...	...	...	...	...	...	2
903	Arthritis	...	...	...	...	1	...	1	...	...	...	...	1	3
	Synovitis	...	...	1	...	...	1	...	...	1	1	...	...	4
925	Myositis	...	...	...	1	...	...	...	...	...	...	...	...	1
952	Cellulitis	1	1	4	4	...	2	2	...	1	2	1	3	21
953	Abscess	...	...	1	2	...	5	2	1	1	3	...	1	16
954	Gangrene	3	3	5	2	1	4	1	2	1	1	1	2	26
956	Anasarca	1	1	...	...	...	...	1	1	...	...	...	1	5

20—concluded.

SPECIFIC CAUSES of DEATHS in 1916 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—concluded.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
OTHER LOCAL DISEASES.														
966	Carbuncle	...	...	1	...	...	2	1	...	...	...	...	1	5
968	Bed Sores	...	...	...	...	...	...	1	...	...	...	...	...	1
972	Pemphigus	...	1	...	...	...	...	...	...	...	...	...	...	1
1001 (b)	Scabies	...	1	...	...	...	...	...	...	...	...	...	...	1
	Skin affection	...	...	...	...	...	...	1	...	...	...	...	...	1
	Ulcers	2	...	1	...	1	...	2	...	2	1	1	...	10
GENERAL INJURIES.														
1025 (a)	Burns and scalds	13	7	7	3	5	3	2	4	1	5	8	10	68
(b)	Heat-stroke	...	...	...	1	2	3	3	2	...	...	...	1	12
(c)	Sun-stroke	...	...	...	...	2	1	...	...	...	...	...	...	3
1029	Effects of Electricity	1	...	...	...	...	1	...	...	...	...	...	...	2
1030	Suffocation	1	...	1	...	...	...	4	1	...	3	2	...	12
(b)	" from strangulation	2	1	...	...	1	...	...	2	1	...	2	2	11
(c)	" plugging of air passages	...	...	...	...	1	...	...	1	...	...	...	...	2
1031	Starvation	4	3	9	1	2	4	4	5	...	3	2	10	47
1033	Shock	1	2	1	1	1	...	2	1	7	1	3	6	26
	Vehicles, Horses, Bullocks, &c.	3	1	5	4	11	7	5	6	3	2	5	4	56
	Ships, boats, Docks, &c.	1	...	...	1	...	...	...	...	...	...	...	...	2
	Fall from houses, trees, stairs, &c.	1	...	...	2	...	...	4	2	...	1	4	4	18
	Machinery	...	...	...	...	...	1	...	...	1	1	...	2	5
	Incised, penetrating and multiple wounds.	2	9	2	5	8	...	2	13	6	7	2	...	56
	Fall of earth, stones, bales, &c., on body.	...	2	...	...	1	2	1	1	...	...	7	1	15
	Accidents	...	...	...	...	...	...	...	...	...	...	...	2	2
LOCAL INJURIES.														
1091	Fracture of Vault of Skull	...	...	...	...	...	...	...	1	...	...	...	...	1
1092	" of base of Skull	1	3	4	2	...	5	6	1	5	...	...	4	31
1093	Wound of Skull	7	5	2	1	2	1	...	2	1	5	3	...	29
1096	Concussion of Brain	...	...	...	1	...	1	...	1	2	2	1	3	11
1027	Contusion of Brain	...	...	...	...	...	...	...	...	...	...	1	...	1
1099	Wound of Brain	1	...	...	...	1	1	...	...	...	...	...	...	3
	Injuries to Head	1	2	3	2	1	1	2	...	...	...	...	1	13
	Gun Shot wounds	...	...	...	17	36	10	2	...	...	...	...	...	65
1101	Gun Shot wound of Head	1	...	...	...	...	...	...	1	...	...	...	...	2
1135	Injuries of Throat	...	...	1	...	...	4	1	1	...	1	...	...	8
1145	Fracture of ribs	...	...	1	...	1	...	1	...	2	1	...	...	6
1154	Rupture of Heart	...	1	1	...	...	1	1	...	...	...	...	...	4
1155	Gunshot wound of chest	3	2	1	...	...	...	...	...	2	...	1	...	5
1162	Compound fracture of spine	...	...	1	...	...	...	...	...	...	...	...	...	2
1167	Gun shot wound of back	1	1	...	...	...	...	...	...	...	...	...	...	5
1170	Gun shot wound of Abdomen	1	4	...	...	...	...	...	...	...	...	...	...	1
1172	Rupture of Abdominal Viscera.	...	...	...	1	...	...	...	1	...	...	...	...	1
1182	Rupture of Bladder.	...	...	...	...	...	...	1	...	...	...	...	...	1
1182 (a)	Rupture of urethra from fracture of Pelvis.	...	...	...	...	...	1	...	...	...	...	...	...	1
1194	Gun shot wound of Pelvis	1	1	...	...	...	...	...	...	...	...	...	...	2
1205	Fracture of bones of forearm	...	...	...	1	...	...	...	1	...	...	...	...	5
1218	Gun shot wound of upper Extremities.	3	7	19	...	...	...	...	...	...	...	...	...	29
1227	Fracture of Femur	...	...	...	...	...	1	...	...	...	...	...	1	2
1229	Fracture of tibia	...	...	...	...	...	...	1	...	...	...	...	1	1
1244	Gun shot wound of Lower Extremities.	10	13	...	...	...	...	...	...	1	1	...	1	26
	Stabbing	...	...	1	1	...	...	...	...	1	5	...	1	9
	Injuries to foot	...	...	...	...	...	...	...	...	1	...	...	1	1
	Rupture of spleen	1	...	...	...	...	1	...	...	1	...	...	...	4
	" Liver	...	...	...	1	...	...	...	...	1	1	...	...	3
	Injuries to Abdomen	...	...	...	...	1	...	1	...	...	...	1	...	3
DROWNING.														
	Drowning	4	6	9	6	6	5	13	7	8	5	3	7	79
POISONING.														
	Poisoning	6	3	4	8	4	10	11	2	5	3	5	5	66
UNSPECIFIED CAUSES.														
	Unspecified causes	3	6	6	8	2	9	4	3	2	7	3	3	56

TABLE of VACCINE OPERATIONS performed in the City of Bombay in 1916.

Ward.	SECTION.	Population (Census of 1911).	Number of Depots in each District.	Number of Vaccinators in each District.	Number of persons vaccinated.		Average number of persons vaccinated by each Vaccinator.		Primary Vaccinations.										Persons successfully vaccinated per 1,000 of population.		Average annual number of persons successfully vaccinated during the past 5 years.		Average annual number of deaths from Small-pox during the preceding 5 years.		Average cost of each successful Vaccination.		
					Males.	Females.	Total.	Successful.					Re-vaccinations.					Total.	Percentage of successful cases where results were known.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.				
								Under one year.	One year and under 6 years.	6 years and above.	Total.	Unknown.	Successful.	Unknown.	Primary Vaccinations.	Re-vaccinations.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
A	Upper Colaba	1,557	1	1	1,572	893	2,465		198	200	893	288	68	1	547	25	2,072	...	2,072	94.29	.....	16.34	398	18.27	...	...	...
	Middle and Lower Colaba	19,679	1	1	7,501	974	8,475		312	338	650	430	122	9	561	53	7,825	8	7,820	98.97	60.00	19.54	512	17.74	...	...	...
	Fort, South...	3,462	1	1	2,145	322	2,467		58	85	143	107	17	1	125	15	2,324	...	2,324	97.66	.....	7.04	143	8.05	...	...	...
	Fort, North	25,400	1	1																						...	...
B	Esplanade	17,761	1	1																					...	...	...
	Mandvi	83,202	1	1	990	362	1,352		201	276	477	333	84	...	417	37	865	...	865	94.77	.....	12.56	408	12.29	...	...	...
	Chukla	24,231	1	1	495	233	728		239	218	451	272	99	...	371	49	977	...	977	92.29	.....	15.31	412	17.00	...	...	...
	Umarnadi	45,679	1	1	1,326	778	2,103		464	458	923	662	141	2	805	78	1,181	...	1,180	95.99	.....	17.62	879	19.24	...	...	...
C	Dongri	27,246	1	1	331	266	597		244	261	505	390	46	5	441	49	92	...	92	94.84	.....	16.19	592	21.73	...	...	...
	Market	30,172	1	1	746	384	1,130		290	297	587	338	156	1	490	66	543	...	543	94.05	.....	16.24	411	13.62	...	...	...
	Dhobi Talao	38,584	1	1	1,448	714	2,162		441	403	847	600	129	6	735	59	1,315	...	1,314	93.27	100.00	19.03	769	15.88	...	...	...
	Fanaswadi	27,403	1	1	1,586	328	2,914		287	274	561	404	93	1	498	37	558	...	553	95.64	.....	18.17	504	18.32	...	...	...
D	Bhuleswar	36,459	1	1	1,013	350	1,363		264	291	555	375	109	3	487	33	808	...	808	93.80	.....	13.36	481	13.19	...	...	...
	Khara Talao	22,979	1	1	1,471	451	1,922		195	195	390	270	52	4	326	41	1,535	...	1,535	93.41	.....	14.19	414	18.03	...	...	...
	Kumbharwada	27,703	1	1	618	417	935		300	325	625	478	56	2	536	56	310	...	310	94.04	.....	19.31	607	21.91	...	...	...
	Khetwadi	31,937	1	1	710	537	1,247		367	359	726	548	79	2	629	58	521	...	516	93.49	.....	19.70	635	19.88	...	...	...
E	Girgaum	30,779	1	1	1,142	610	1,752		406	435	841	608	115	5	728	62	941	...	941	93.32	.....	23.62	764	24.82	...	...	...
	Chowpati	11,297	1	1	323	356	679		146	163	309	225	45	2	272	21	570	...	870	94.44	.....	23.87	289	25.86	...	...	...
	Walkeshwar	10,640	1	1	415	222	637		104	97	201	145	29	1	175	16	436	...	436	94.59	.....	16.45	236	23.18	...	...	...
	Nabakshmi	26,302	1	1	684	519	1,203		348	355	703	535	69	5	609	43	530	...	528	92.27	50.00	23.19	626	23.80	...	...	...
F	Mazagon	30,075	1	1	382	559	1,441		307	343	650	513	53	6	572	45	791	...	791	94.55	.....	19.02	645	21.45	...	...	...
	Tarwadi	28,424	1	1	1,602	635	2,237		232	308	590	448	58	13	519	54	1,647	...	1,646	96.83	.....	18.26	541	19.03	...	...	...
	2nd Nagpada	21,700	1	1	1,099	948	2,047		771	784	1,555	1,106	192	7	1,305	151	492	...	485	92.95	14.29	16.15	1,474	17.10	...	...	...
	Kamathipura	36,751	1	1	2,304	1,534	3,838		627	667	1,294	960	156	2	1,118	130	2,544	...	2,543	96.05	.....	13.67	1,282	15.68	...	...	...
G	Tardeo	27,758	1	1																					...	...	...
	Byculla	75,348	1	1																					...	...	...
	1st Nagpada	6,414	1	1																					...	...	...
	Parli	45,474	1	1	1,411	768	2,179		435	438	873	673	101	5	779	53	1,306	...	1,301	95.00	40.00	17.17	909	19.99	...	...	...
Total	Sewri	19,067	1	1	395	269	664		181	170	351	280	33	...	313	21	253	...	253	94.85	.....	16.42	425	22.39	...	...	...
	Slon	30,680	1	1	647	493	1,140		361	353	714	540	104	1	645	46	426	...	426	96.26	.....	20.96	757	24.67	...	...	...
	Mahim	30,492	1	1	1,171	891	2,062		699	747	1,446	1,031	214	18	1,323	72	616	...	609	96.07	.....	43.29	1,368	44.86	...	...	...
	World	89,671	1	1	990	800	1,790		725	698	1,423	1,127	163	4	1,294	77	367	...	363	95.99	.....	14.42	1,373	15.32	...	...	...
Total	Harbour, Docks, Railways and Homeless	44,979	...	...	8,840	266	4,106		216	222	438	82	38	...	120	317	3,668	127	8,539	99.17	98.45	5.49	548	12.18	...	...	...
	Total	979,445	14	6	37,746	15,882	53,628	8,938	9,457	9,763	19,220	13,823	2,611	106	16,540	1,750	34,408	135	34,239	94.63	79.88	17.02	18,339	18.77	449	45	2 0 10

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TABLE of Births registered and of Vaccinations of Infants under one year of age performed in the year 1916.

Ward.	SECTIONS.	Total number of births exclusive of still-born.	Still-born.	Deaths under one year.	Number of Infants surviving.	Number of Infants vaccinated under one year.	Percentage of vaccinations to births registered.
A	Upper Colaba ...	103	5	21	82	329	77.23
	Middle and Lower Colaba ...	323	24	129	194		
	Fort, South ...	15	...	10	5		
	Fort, North ...	690	48	212	478		
B	Esplanade ...	253	28	75	178	132	48.22
	Mandvi ...	543	49	307	236	383	70.53
	Chukla ...	456	48	229	227	329	72.14
	Umarkhadi ...	1,297	120	475	822	746	57.51
C	Dongri ...	475	36	191	284	448	94.31
	Market ...	386	31	217	119	403	119.94
	Dhobi Talao ...	854	75	263	592	680	79.62
	Fanaswadi ...	599	32	201	398	454	75.79
D	Bhuleshwar ...	659	58	326	333	425	64.49
	Khara Talao ...	558	48	206	547	321	58.04
	Kumbharwada ...	651	61	251	400	554	85.09
	Khetwadi ...	740	53	224	516	630	85.13
E	Girgaum ...	732	61	276	456	704	96.17
	Chowpati ...	269	19	60	209	258	95.91
	Walkeshwar ...	228	15	70	158	164	71.92
	Mahalakshmi ...	713	35	204	509	617	86.53
F	Mazagon ...	773	54	268	505	576	74.51
	Tarwadi ...	859	62	274	585	508	59.13
	2nd Nagpada ...	501	60	213	288	1,306	63.92
	Kamathipura ...	848	81	389	459		
G	Tardeo ...	694	55	264	430		
	Byeulla ...	1,806	141	933	873		
	1st Nagpada ...	167	13	48	119	1,105	56.00
	Parel ...	877	81	360	517	757	86.31
H	Sewri ...	441	32	188	253	313	70.97
	Sion ...	823	46	250	573	599	73.78
	Mahim ...	906	61	279	627	1,181	130.35
	Worli ...	1,994	165	803	1,191	1,231	61.73
Harbour, Docks, Railways and Homeless ...		2	1		2	312	
Total ...		21,180	1,687	8,215	12,965	15,961	75.35

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TABLE of Primary Vaccinations performed with different kinds of Lymph in 1916.

	Number of operations.	Successful.	Unknown.	Percentage of success after deducting the unknown cases.
I Calf Lymph ...	5,428	4,726	469	95.30
II Glycerinated Lymph ...	13,792	11,805	1,281	94.36
III Lanolinated Lymph ...				
IV Human Lymph ...				
Total ...	19,220	16,531	1,750	94.63

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TABLE of prosecutions instituted by the Vaccination Department in 1916.

1	2	3	4	5	6	7
Section of the Act.	Nature of the Charge.	Number of Cases instituted.	Number of Cases discharged.	Otherwise.	Number of Cases convicted.	Amount of Fines inflicted.
Section VII of the Bombay Vaccination Act I of 1877.		...	...	...	...	...

TABLE of DEATHS by Disease

Wards.	SECTIONS.	GENERAL DISEASES.																		
		Small pox.	Measles.	Plague.	FEVERS.					Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhoea.	Dysentery.	Puerperal Septicæmia.	Leprosy.	Cancer.	Premature Birth.	
					Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.											
A	Upper Colaba	1	...	3	...	6	5	3	...	...	...	...	4	...	10	1	...	2	3	
	Middle and Lower Colaba...	9	5	86	...	4	8	8	...	...	...	1	10	16	12	3	...	1	10	
	Fort, Southern	3	...	6	...	9	10	4	...	...	...	...	...	19	29	...	...	...	4	
	Fort, Northern	38	7	65	...	17	6	31	...	...	1	...	7	46	6	5	...	3	24	
	Esplanade	6	1	22	...	26	29	30	1	...	1	1	10	53	40	1	...	2	10	
B	Mandvi	21	22	108	...	5	6	46	...	...	...	...	2	26	14	8	1	2	4	
	Chukla	6	19	44	...	...	6	25	...	...	...	...	3	27	14	19	...	2	5	
	Umarkhadi	7	30	33	...	7	4	118	...	...	1	...	5	89	53	18	...	5	11	
	Dongri	5	3	32	...	3	5	27	...	...	...	...	1	28	24	4	...	...	13	
	Market	23	28	61	...	6	10	45	1	1	...	...	4	25	5	8	...	...	5	
C	Dhobi Talao	48	17	41	...	6	14	40	...	2	...	...	10	39	14	7	...	2	22	
	Fanaswadi	14	18	47	...	4	9	36	...	...	...	...	8	33	11	4	...	1	13	
	Bhuleshwar	12	4	92	...	3	9	33	...	...	...	1	6	92	13	5	3	...	15	
	Khara Talao	9	5	31	...	4	6	7	...	...	...	...	8	38	13	8	...	...	2	
	Kumbharwada	20	22	49	...	1	2	24	...	...	1	...	5	49	12	6	...	2	6	
D	Khetwadi	44	15	52	...	6	12	49	...	1	1	...	2	19	11	9	3	8	28	
	Girgaum	31	14	46	...	8	11	64	...	...	...	...	3	26	18	7	1	2	34	
	Chowpati	6	5	10	...	8	1	8	...	...	...	...	5	8	6	5	1	2	9	
	Walkeshwar	3	...	23	...	1	5	13	...	1	...	...	...	5	12	7	...	2	9	
	Mahalakshmi	20	12	65	...	8	6	14	...	...	...	...	4	49	16	...	...	8	7	
E	Mazagon	28	5	70	...	3	1	196	...	...	...	...	1	87	35	4	...	4	4	
	Tarwadi	34	1	61	...	4	19	164	...	1	...	...	4	133	54	5	...	3	7	
	2nd Nagpada... ..	36	9	26	...	3	3	17	...	...	1	...	2	41	19	5	1	...	10	
	Kamathipura	93	11	90	...	2	3	34	...	...	...	...	2	68	29	9	...	1	9	
	Tardeo	61	10	34	...	1	2	14	...	...	...	1	3	65	10	6	...	3	15	
F	Byculla	129	24	173	...	7	14	64	...	...	...	1	8	190	116	20	2	2	30	
	1st Nagpada	10	3	6	...	1	4	3	...	...	...	...	...	11	3	2	...	1	4	
	Parel	84	7	131	...	2	7	123	...	...	...	...	4	34	32	11	...	1	6	
	Sewri	18	1	30	...	...	3	52	...	...	...	...	2	22	16	5	...	1	...	
	Sion	30	6	96	...	2	3	80	...	...	...	...	3	52	25	10	75	3	3	
G	Mahim	40	6	46	...	3	2	51	...	...	...	...	2	86	34	6	...	2	18	
	Worli	129	33	252	...	5	7	286	1	...	1	...	8	144	82	21	...	5	17	
	Harbour, Docks, Railways and Homeless	3	1	6	...	3	6	21	...	...	...	...	5	4	8	...	...	...	...	
TOTAL		1,021	344	1,987	...	168	238	1,732	3	6	7	5	141	1,624	796	229	87	70	357	

and Section in 1916.

					LOCAL DISEASES.												INJURIES.						
Debility.	Old Age.	Tubercle of Lungs.	All other Tubercular Diseases.	Other General Diseases.	Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	Respiratory System.		Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	General.		Local Injuries.	Poison.	Unspecified Causes.	TOTAL.	
								Phthisis.	Other Diseases of the Respiratory System.								Drowning.	Other General Injuries.					
6	2	1	4	7	5	...	2	1	18	7	1	2	...	5	1	...	3	4	28	4	...	134	
25	12	1	5	23	30	...	12	14	132	21	...	4	2	24	1	1	1	2	1	1	1	462	
4	1	29	7	18	7	...	2	3	55	7	2	...	...	...	3	...	1	1	72	1	...	257	
29	26	11	6	44	80	...	20	59	198	54	...	12	6	48	2	1	2	17	9	4	...	836	
16	8	19	9	53	31	2	18	43	153	31	...	10	3	28	2	1	3	19	34	3	...	691	
53	19	3	3	53	71	...	10	56	415	34	1	8	5	49	5	1	1	9	1	4	2	1,021	
54	41	4	8	60	32	...	14	69	328	41	...	5	4	48	1	1	...	5	2	1	...	840	
123	117	13	14	102	198	1	22	65	493	80	1	26	3	120	2	...	1	12	7	2	5	1,718	
42	23	4	2	22	37	...	2	9	242	34	...	2	1	36	2	2	2	11	5	...	2	589	
63	24	7	2	40	20	...	18	25	268	32	1	6	3	31	3	...	...	10	5	3	1	753	
52	49	16	7	75	56	...	29	29	370	77	...	18	13	75	3	...	2	8	9	3	2	1,080	
57	35	4	...	47	57	...	13	30	228	45	...	8	17	32	2	1	...	8	3	...	1	754	
64	45	10	6	66	89	...	17	21	426	71	1	17	4	58	2	...	...	8	4	6	1	1,146	
53	50	2	13	56	118	...	9	46	271	20	...	6	4	48	3	...	...	6	2	4	2	795	
74	43	4	1	54	61	...	4	39	358	25	...	7	9	61	4	...	3	13	2	...	6	906	
28	53	12	15	59	44	...	23	59	263	47	3	15	11	53	4	...	3	8	4	1	4	916	
25	28	10	12	53	37	...	13	51	263	76	...	18	5	51	2	...	1	5	...	3	2	923	
7	11	2	4	18	27	...	5	15	67	22	...	9	3	19	1	...	2	3	...	2	...	272	
14	11	2	1	12	22	...	5	7	75	28	...	5	3	15	...	...	2	1	3	1	...	273	
56	11	8	3	60	53	...	9	56	214	31	1	9	1	35	1	1	3	6	3	...	...	755	
82	3	3	2	27	61	...	11	14	323	16	...	7	5	54	1	...	...	6	6	3	1	1,004	
65	14	38	24	53	81	...	19	33	394	39	...	17	10	62	12	1	5	43	15	3	3	1,359	
33	33	10	7	80	57	...	8	86	286	50	...	4	8	60	1	...	1	5	6	1	1	850	
110	2	15	5	101	84	...	11	154	479	70	...	5	2	81	5	...	...	20	2	5	2	1,423	
63	10	9	7	80	52	...	14	76	286	32	...	8	7	55	3	1	...	8	6	1	1	889	
286	30	16	25	202	211	...	20	67	1,042	87	...	14	14	141	7	6	3	19	15	4	5	2,853	
7	2	4	1	11	14	...	8	8	51	15	...	1	...	13	3	...	1	4	...	...	...	178	
134	72	6	4	89	55	...	9	40	500	21	...	12	5	80	...	1	3	15	6	2	...	1,421	
78	17	1	3	31	12	...	2	11	182	9	...	4	...	32	...	...	3	5	...	1	...	509	
126	28	2	3	58	25	...	13	32	205	34	...	10	6	46	3	...	5	14	4	...	4	960	
78	76	2	3	30	69	...	14	45	306	41	...	11	...	61	2	1	3	10	4	1	1	993	
308	206	14	10	157	106	...	21	140	731	79	...	11	12	165	8	...	11	25	7	2	6	2,840	
1	...	3	1	6	3	...	8	2	22	8	...	1	1	1	1	...	14	8	15	...	3	154	
2,215	1,102	285	222	1,847	1,955	3	405	1,395	9,649	1,284	11	292	167	1,687	90	19	79	337	280	66	56	30,574	

TABLE of DEATHS by Race, Cause and Sex in 1916.

RACE OR CASTE.	GENERAL DISEASES.																	
	Small-pox.	Measles.	Plague.	FEVERS.										Influenza.	Whooping Cough.			
				Scarlet Fever.		Enteric Fever.		Malarial Fever.		Ague and Re-mittent Fever.		Relapsing Fever.						
				Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.			Males.	Females.	
Jains	10	9	16	139	25	...	...	7	1	6	2	36	14	1	...	...	...	...
Brahmins	21	15	12	86	20	...	...	8	3	3	5	56	34	...	...	...	...	...
Lingaits	2	2	...	11	4	...	...	...	...	...	...	3	5	...	...	...	...	...
Bhatias	3	1	3	8	4	...	...	1	...	1	...	7	6	...	...	...	...	...
Hindus of other Castes...	348	240	89	814	318	...	...	38	5	86	32	619	377	2	...	...	1	...
Hindus, Low Caste ...	64	74	31	103	83	...	...	2	...	5	...	95	71	...	...	...	...	2
Muslimans	65	44	19	192	55	...	...	15	5	28	15	158	129	...	...	...	1	1
Parsees	9	9	2	22	21	...	...	15	6	5	6	32	15	...	...	2	...	1
Jews	...	...	4	4	1	...	...	2	...	3	...	4	5	...	...	...	...	...
Native Christians	45	47	7	52	18	...	...	10	2	8	8	92	32	...	...	...	...	1
Eurasians	4	3	1	1	...	...	...	...	1	4	2	2	1	...	...	...	...	...
Europeans	4	2	1	5	1	...	...	43	3	16	3	6	2	...	...	...	...	...
Negro-Africans	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Buddhists	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Other and Unknown Castes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Males	575	171	...	1,437	...	...	...	142	...	165	...	1,050	...	3	4	2	...	5
Females	...	...	173	...	550	...	...	...	26	...	73	...	682	...	...	...	...	...
Persons	1,021	344	1,987	...	...	...	...	168	238	1,732	...	...	3	6	7	...	...	...

26—continued.
TABLE of DEATHS by Race, Cause and Sex in 1916—continued.

RACE OR CASTE.	GENERAL DISEASES—contd.													
	Diphtheria.		Cholera.		Diarrhoea.		Dysentery.		Puerperal Septicæmia.		Leprosy.		Cancer.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	...	...	4	2	29	27	9	9	...	11	1	...	...	6
Brahmins	...	...	4	...	30	22	19	8	...	7	1	1	...	9
Lingaits	...	...	...	...	5	5	3	1	...	2	...	...	...	1
Bhatias	...	...	...	...	2	6	3	1	...	3	...	...	...	2
Hindus of other Castes	1	...	52	16	393	289	213	132	...	108	43	17	9	91
Hindus, Low Caste	...	...	7	5	147	108	51	56	...	17	4	1	...	26
Mussulmans	1	...	21	8	210	199	107	52	...	67	6	1	7	21
Parsees	...	...	1	2	27	34	5	6	...	3	...	...	9	15
Jews	...	...	...	...	7	4	6	3	...	3	...	...	...	1
Native Christians	...	...	5	1	23	36	21	12	...	7	6	6	10	19
Eurasians	1	...	...	...	6	2	3	2	...	1	...	...	...	2
Europeans	1	...	7	4	5	2	38	2	...	...	...	...	2	6
Negro-Africans	...	...	...	...	3	...	1	...	...	...	...	...	...	3
Buddhists	...	...	...	...	3	...	3	...	...	...	...	...	...	...
Other and Unknown Castes	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Males	4	102	...	...	830	...	512	...	...	...	61	...	38	198
Females	...	...	39	...	...	734	284	...	229	...	...	26	...	...
All Castes...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Persons	5	141	1,624	793	229	87	70	357	2,215	1,102	...	...	...	...

26—continued.

TABLE of DEATHS by Race, Cause and Sex in 1916—continued.

RACE OR CASTE.	GENERAL DISEASES—concluded.						LOCAL DISEASES.															
	Tubercle of Lung.		Other Tubercular Diseases.		Other General Diseases.		Nervous System		Diseases of the Eye, Ear and Nose.		Circulatory System.		RESPIRATORY SYSTEM.		Digestive System.		Lymphatic System.		Urinary System.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		
Jains	2	3	6	6	47	80	61	48	...	...	15	4	10	30	279	159	31	32	...	7	6	
Brahmins...	3	3	2	11	34	31	58	36	...	...	16	2	9	25	240	147	32	33	...	9	2	
Lingaits	...	2	...	1	9	6	1	5	...	...	3	...	3	8	27	22	6	3	...	2	...	
Bhatias	...	1	1	2	7	11	8	2	...	...	4	2	3	12	28	28	9	4	...	...	1	
Hindus of other Castes	98	31	60	25	415	353	442	327	1	...	104	17	289	350	2,804	1,954	326	182	3	2	41	
Hindus, Low Caste	3	4	2	4	116	111	106	92	...	...	11	3	65	74	695	598	70	60	...	...	5	
Muslimans	62	16	23	37	226	242	299	262	1	...	68	16	165	285	1,251	883	175	92	...	1	27	
Parsees	7	7	4	8	54	42	47	32	...	...	42	27	6	8	88	77	40	30	1	3	13	
Jews	2	...	2	...	6	7	7	14	...	...	3	1	3	4	21	20	6	5	...	2	2	
Native Christians	14	19	9	14	32	33	44	33	...	...	29	12	19	21	139	117	47	49	...	15	16	
Eurasians	2	3	1	...	6	3	8	4	...	...	2	1	2	2	11	13	7	5	...	2	3	
Europeans	4	...	4	...	16	7	14	2	...	...	15	3	2	...	22	8	30	8	1	6	3	
Negro-Africans	...	...	...	...	...	...	1	1	...	...	1	...	...	...	3	4	...	...	...	...	...	
Buddhists...	...	...	...	...	2	...	1	...	...	...	4	...	...	...	4	...	1	1	...	...	...	
Other and Unknown Castes	...	...	...	...	1	...	...	...	...	...	...	...	...	...	3	4	...	...	...	...	...	
Males	197	...	114	...	971	...	1,097	...	2	...	317	...	576	...	5,615	...	780	...	5	...	173	
Females	...	88	...	108	...	876	...	858	...	1	...	88	...	819	...	4,024	...	504	...	6	...	
All Castes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Persons...	285	282	222	1,847	1,955	3	405	1,395	9,649	1,234	11	292	285	282	1,847	1,955	3	405	1,395	9,649	1,234	292

26—concluded.

TABLE of DEATHS by Race, Cause and Sex in 1916—concluded.

RACE OR CASTE.	LOCAL DISEASES— <i>concl.</i>				INJURIES.								Unspecified Causes.	Poisons.	All Causes.						
	Generative System.	Still-born.	Organs of Lo- comotion and Connective Tissue.	Other Local Diseases.	GENERAL.				Local Injuries.												
					Drowning.	Other General Injuries.															
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.				
Jains	3	8	32	32	3	...	1	...	...	...	...	...	1	1	...	786	485	1,271			
Brahmins ...	1	7	24	27	6	1	1	...	1	4	5	3	2	...	...	708	499	1,207			
Lingaits ...	...	...	2	2	...	...	...	...	...	3	3	2	...	...	...	99	80	172			
Bhatias ...	1	1	7	3	1	1	...	...	1	1	2	1	...	1	1	...	104	108	212		
Hindus of other Castes ...	9	62	395	312	26	17	7	2	38	11	111	47	110	6	5	21	12	8,524	5,962	14,586	
Hindus, Low Caste ...	...	14	158	105	3	2	1	...	2	1	12	9	12	6	5	8	...	1,884	1,649	3,533	
Muslimans ...	6	26	219	155	10	8	2	4	12	2	61	17	46	6	3	5	4	3,719	2,885	6,604	
Parsees ...	5	13	46	30	1	...	...	...	3	...	8	6	7	...	...	2	...	522	457	979	
Jews ...	...	2	9	8	...	...	...	...	...	...	2	...	1	...	1	1	...	96	89	185	
Native Christians ...	1	4	35	39	2	4	1	...	1	...	9	2	8	2	1	2	2	663	579	1,242	
Eurasians ...	...	...	3	7	1	...	...	...	...	...	...	...	...	...	...	...	...	68	54	122	
Europeans ...	1	1	6	1	4	...	...	...	4	...	14	...	64	...	...	...	...	343	60	403	
Negro-Africans ...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	7	17	
Buddhists ...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	20	1	21	
Other & Unknown Castes ...	1	...	23	16	...	...	...	...	...	...	1	8	...	...	...	2	...	8	12	20	
Males ...	28	...	966	...	57	...	12	...	63	...	232	...	256	...	49	33	...	17,647	...		
Females ...	...	139	...	727	...	33	...	7	...	16	...	105	...	24	...	...	18	...	12,927		
Persons ...	167		1,687		90		19		79		337		280		66		56		30,574		

TABLE of DEATHS by Age, Sex and Cause in 1916.

AGE.	GENERAL DISEASES.													
	Small-pox.	Measles.		Plague.	FEVERS.								Influenza.	Whooping Cough.
		Males.	Females.		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS .. 1 to 30 ..	7	3	4	2	...	...	...	...	...	...	...	...	...	...
MONTHS ..	52	66	18	21	1	...	1	...	...	...	...	...	...	2
	58	73	41	48	1	...	5	2	64	62	...	...	1	1
	41	57	53	44	2	1	4	2	54	47	1	...	2	...
2 to 3 ..	18	20	21	23	1	...	1	2	14	19	...	...	...	...
3 to 4 ..	15	15	14	15	4	...	2	1	9	14	...	...	...	1
4 to 5 ..	14	9	4	6	3	...	...	...	11	17	...	...	...	...
5 to 10 ..	51	32	9	6	100	53	3	4	61	58	...	...	...	1
10 to 15 ..	30	28	2	2	152	87	8	4	5	56	...	...	...	...
15 to 20 ..	107	53	3	3	278	104	28	2	13	9	109	83	1	...
20 to 25 ..	107	39	1	1	310	80	40	2	23	14	168	70	...	...
25 to 30 ..	37	17	1	1	233	70	26	3	36	8	124	74	...	...
30 to 35 ..	15	8	...	...	118	33	14	4	8	5	104	42	...	...
35 to 40 ..	12	11	...	1	85	25	10	1	14	7	61	20	...	...
40 to 45 ..	7	2	...	...	33	21	4	2	17	3	50	20	1	...
45 to 50 ..	1	4	...	...	41	16	...	...	6	2	50	24	...	...
50 to 55 ..	2	3	...	...	16	7	3	1	5	1	15	6	...	...
55 to 60 ..	1	3	...	...	12	5	...	1	7	2	18	9	1	...
60 & over ..	...	1	...	...	11	4	1	1	7	5	32	17	1	...
Unspecified Age ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Males ..	575	171	...	...	1437	...	142	...	165	...	1,050	...	4	2
Females ..	...	446	...	550	...	...	26	...	73	...	682	...	...	5
ALL AGES. Persons ..	1,021	344	1,987	...	...	...	168	238	1,752	3	6	7	...	7

27—continued.

TABLE of DEATHS by Age, Sex and Cause in 1916—continued.

AGE.		GENERAL DISEASES—contd.										
		Diphtheria.	Cholera.	Diarrhoea.	Dysentery.	Puerperal Septicæmia.	Leprosy.	Cancer.	Premature Birth.	Debility.	Old Age.	
DAYS	...	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
		...	...	...	...	...	...	...	...	...	...	
MONTHS	...	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
		...	...	...	...	...	...	...	...	...	...	
YEARS	...	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
		...	...	...	...	...	...	...	...	...	...	
ALL AGES.	...	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
		...	...	...	...	...	...	...	...	...	...	

TABLE of DEATHS by Age, Sex and Cause in 1916—concluded.

AGE.	LOCAL DISEASES—concluded.				INJURIES.				Poisons.	Unspecified Causes.	All Causes.	All Ages.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	GENERAL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					Drowning.		Other General Injuries.						Local Injuries.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
					Males.	Females.	Males.	Females.					Males.	Females.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
DAYS { 1 to 30...	8	5	2	1	...	1	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</

⑤

3

TABLE of Deaths by DISEASE and

		GENERAL DISEASES.																
Title of Orders.	Occupation or Trade of Family.	Small-pox.	Measles.	Plague.	FEVER.					Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhoea.	Dysentery.	Puerperal Septicæmia.	Leprosy.	
					Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.									
Art	34 (a) Engineers, Photographers, Electricians, Architects	1	..	..	..	2	1	..	..	..	..	..	..	2	1	..	..	
	35 (b) Builders in Boats, Houses, Coaches, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	36 (c) Watchmakers, Gilders, Engravers, &c.	1	..	1	..	2	..	..	..	..	..	1	2	..	..	..	..	
	37 (d) Metal Workers	3	..	22	..	1	..	18	..	..	..	6	7	8	..	..	1	
	38 (e) Wood Workers	4	..	28	..	4	..	22	..	..	..	6	11	8	..	..	1	
	39 (f) Stone Workers (Precious)	..	..	3	..	..	..	3	..	..	..	..	1	1	..	..	..	
	40 (g) Leather Workers	1	..	14	..	..	..	8	..	..	..	1	9	6	..	..	..	
	41 (h) Earth, Stone, Clay, &c., Workers	..	..	3	..	..	1	1	..	..	..	..	3	..	..	..	..	
	42 (i) Textile Fabrics (Cotton, Silk, &c.), Workers	..	..	16	..	..	..	..	..	..	..	..	1	1	..	..	..	
	43 (j) Dyers, Painters, &c.	1	..	..	..	..	1	8	..	..	..	..	7	2	..	..	..	
	44 (k) Glass Workers	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	
	45 (l) Salt Workers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	46 (m) Water Workers	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	
	47 (n) Miscellaneous Workers	3	..	45	..	2	2	23	..	..	..	1	16	13	..	..	3	
	48 (o) Players, Actors, Dancers, Prostitutes, &c.	..	..	4	..	1	..	4	..	..	..	1	..	3	..	..	..	
Agriculture ..	49 (a) Gardeners, Cultivators, Farmers, &c.	2	..	16	..	1	3	8	..	..	..	2	7	7	1	30	..	
	50 (b) Grass, Hay, Forage, &c., Dealers	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	
Other and unspecified.	51 (a) Barbers, Washers, Tailors, Cooks, Bakers, &c.	30	1	73	..	3	5	26	..	..	..	2	24	31	3	2	..	
	52 (b) General Labourers	76	..	234	..	3	10	151	..	..	..	10	66	61	5	5	..	
	53 (c) Domestic Servants, Bhutis, &c.	31	..	45	..	9	5	20	..	..	..	5	5	5	..	2	..	
	54 (d) Servants not otherwise described	26	..	181	..	7	6	58	2	1	..	5	27	21	..	1	..	
	55 (e) Municipal Bigaries, &c.	1	..	14	..	3	3	3	..	..	..	4	10	7	1	..	..	
Persons of independent means.	56 (a) Landlords	..	..	..	..	..	6	..	..	..	..	1	1	1	..	..	..	
	57 (b) Pensioners	..	..	3	..	..	5	..	..	..	..	6	4	..	..	..	..	
	58 (c) Mendicants, &c.	2	..	18	..	3	11	21	..	1	..	..	33	18	..	12	..	
Others	59 (a) Students	8	..	20	..	14	2	14	..	..	..	1	4	1	1	2	..	
	60 (b) Prisoners and Convicts	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	61 (c) Others (Pilgrims, Travellers, etc.)	..	..	..	..	6	4	..	..	..	..	16	..	..	..	..	..	
	62 Persons following no occupations—Male	18	..	55	..	2	22	44	..	1	..	4	61	30	..	1	..	
	63 Do. no occupations—Female	32	1	231	..	16	49	235	..	1	..	1	20	255	99	194	13	
	64 Do. no occupations—Children	541	341	295	..	15	41	566	1	1	7	3	11	851	254	3	1	
	Total	1,021	344	1,987	..	168	238	1,732	3	6	7	5	141	1,624	736	229	87	

—concl.

OCCUPATION in 1916—concluded.

Cancer.	LOCAL DISEASES.																	INJURIES.					TOTAL.	
	Premature Birth.	Debility.	Old Age.	Tubercle of Lungs.	Other Tubercular Diseases.	Other General Diseases.	Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	RESPIRATORY SYSTEM.		Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	GENERAL.		Local Injuries.	Poison.		Unspecified Causes.
										Phtisis.	Other Diseases of the Respiratory System.								Drowning.	Other General Injuries.				
..	..	..	3	..	..	2	3	..	3	1	7	..	..	1	..	..	1	..	..	..	..	..	..	28
..	..	..	..	..	..	..	..	..	..	..	4	..	1	..	..	..	..	..	..	..	..	..	..	5
..	..	..	2	..	..	2	2	..	2	..	5	1	..	..	..	..	1	..	..	..	..	..	..	32
..	..	..	12	2	2	6	6	..	7	21	36	12	..	2	1	..	..	..	2	..	..	..	1	227
1	..	2	15	3	3	10	8	..	7	17	95	11	..	1	..	..	..	2	7	1	1	1	1	269
..	..	..	3	1	..	1	..	..	3	2	18	5	..	..	..	..	..	..	1	2	..	..	..	43
..	..	..	16	2	..	3	3	..	2	13	49	9	..	1	..	..	..	..	..	..	..	..	..	137
..	..	..	1	..	..	1	..	..	1	2	11	..	..	1	..	..	..	1	..	..	..	..	..	26
..	..	..	1	..	..	1	..	..	..	1	6	..	..	..	..	..	..	..	..	..	..	..	..	27
..	..	..	3	2	1	6	1	..	3	3	34	4	..	1	..	..	1	..	..	1	1	..	..	30
..	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	..	..	..	..	..	..	1	..	3	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	2	..	..	..	1	..	1	1	3	1	..	..	..	..	..	..	..	..	..	..	..	11
..	2	..	15	4	4	17	6	..	8	25	106	9	..	2	1	..	2	..	1	6	4	1	..	313
1	..	..	2	..	1	3	1	..	1	4	18	3	..	1	..	..	..	..	..	..	1	..	..	49
1	..	..	12	2	2	8	6	..	1	3	46	10	..	1	1	..	3	..	..	2	2	1	1	179
..	..	..	1	..	..	1	..	..	..	..	3	..	..	..	..	..	..	..	1	..	..	..	..	7
2	..	1	45	12	6	19	18	..	21	35	253	29	..	1	..	..	1	..	4	6	5	1	..	649
..	..	1	52	17	9	47	22	..	8	103	664	48	..	8	5	..	8	2	7	44	24	2	2	1,689
1	..	1	6	6	3	7	6	..	16	18	94	18	..	4	..	..	..	2	1	6	7	1	..	324
1	..	1	28	13	9	22	14	..	15	38	224	50	1	9	1	..	2	..	..	2	2	..	2	767
1	..	..	8	2	2	10	3	..	4	18	82	10	..	2	1	..	..	..	..	4	1	4	..	197
2	..	..	6	1	..	3	5	..	3	3	13	2	..	..	..	..	..	1	..	..	..	1	..	49
2	..	..	18	..	..	4	11	..	7	1	30	6	..	3	1	..	..	..	..	2	..	..	..	103
1	..	..	18	9	6	14	13	..	12	26	116	11	..	12	1	..	2	1	..	13	3	..	1	378
..	..	..	..	2	3	10	3	..	1	5	20	2	..	2	..	..	1	..	3	1	1	3	..	124
..	..	..	..	..	..	..	..	..	1	..	2	2	..	..	..	..	..	..	2	..	..	..	..	7
..	..	..	2	..	1	1	1	..	..	2	4	..	..	..	..	..	..	..	..	..	..	..	..	37
5	..	4	94	41	27	64	50	..	36	53	210	39	..	29	4	..	6	2	20	36	9	5	12	937
31	..	13	516	73	65	322	146	..	70	625	1,178	149	5	89	126	..	19	2	7	46	13	8	10	4,709
..	357	2,162	..	9	37	980	1,506	1	16	49	4,398	537	1	27	14	..	15	5	9	67	20	4	13	13,230
70	357	2,215	1,102	285	222	1,847	1,955	3	405	1,395	9,649	1,284	11	292	167	1,687	90	19	79	337	280	66	56	30,574

RACE.	AGES.																					
	1 to 30 days.	1 to 6 months.	7 to 12 months.	1 to 2 years.	2 to 3 years.	3 to 4 years.	4 to 5 years.	5 to 10 years.	10 to 15 years.	15 to 20 years.	20 to 25 years.											
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.										
Jains ...	49	82	84	58	82	90	47	48	11	8	5	7	6	24	7	34	25	82	44	77	37	
Brahmins ...	40	48	63	56	79	61	48	52	11	14	7	8	5	19	19	18	21	49	57	71	34	
Lingaitis ...	6	8	6	6	13	6	7	5	...	6	1	1	1	2	2	...	3	8	7	6	10	
Bhatias ...	8	8	14	9	6	8	3	4	...	1	3	2	...	1	...	5	4	8	6	8	9	
Hindus of other Castes	837	615	588	528	619	626	475	461	163	167	95	106	71	69	273	247	285	700	430	954	453	
Hindus, Low Caste	249	185	187	160	230	263	188	184	51	63	33	36	18	15	79	75	58	51	161	85	131	
Musalmans ...	282	213	293	275	266	276	225	238	38	89	47	48	34	30	113	136	106	158	215	305	256	
Parsees ...	26	32	27	22	47	31	50	36	8	13	3	6	5	1	6	9	9	12	9	21	20	
Jews ...	10	9	5	10	5	8	20	3	2	5	1	2	1	1	...	5	...	4	3	7	5	
Native Christians	74	72	75	84	38	42	31	25	10	9	4	7	4	7	13	23	17	16	48	68	51	
Eurasians ...	7	4	6	4	2	5	10	4	...	1	1	...	1	1	1	2	2	...	6	2	4	
Europeans ...	9	3	8	4	2	3	2	4	2	...	1	1	1	...	2	2	2	1	3	75	3	
Negro-Africans	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	1	...	3	...	1	
Buddhists	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	4	...	
Other and Unknown Castes	4	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
Males ...	1,591	1,359	...	1,390	...	...	1,107	...	346	...	204	...	148	...	533	...	537	...	1,332	...	1,723	...
Females ...	...	1,240	...	1,216	...	1,419	...	1,054	...	379	...	222	...	142	...	516	...	515	...	917	...	
All Castes ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	980	
Persons	2,831	2,575	2,809	2,161	725	423	290	1,049	1,052	2,149	2,716											

29—concluded.

TABLE of DEATHS by Race, Age and Sex in 1916—concluded.

RACE.	AGES—continued.												Persons.									
	35 to 40 years.		40 to 45 years.		45 to 50 years.		50 to 55 years.		55 to 60 years.		60 and over.			Unspecified Ages.	All Ages.							
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.										
Jains	56	24	88	18	31	10	32	11	34	12	22	10	22	12	46	25	...	...	786	485	1,271	
Brahmins	50	18	39	14	42	11	32	6	34	14	23	6	28	14	50	37	...	...	708	499	1,207	
Lingaits	9	4	6	3	6	...	1	3	4	2	4	1	1	2	11	11	...	...	92	80	172	
Bhatias	5	8	4	4	10	8	3	4	15	3	4	1	4	2	9	25	...	...	104	108	212	
Hindus of Other Castes ...	8,3	400	603	268	515	198	269	130	359	163	182	80	323	237	467	564	3	1	8,624	5,963	14,586	
Hindus, Low Caste ...	126	118	91	37	75	43	41	22	56	35	39	7	71	75	70	86	...	...	1,834	1,649	3,533	
Mussalmans	319	233	252	112	251	119	140	52	139	75	101	26	180	82	328	273	...	...	3,719	2,835	6,604	
Parsees	16	18	23	18	20	23	28	18	26	27	31	16	47	21	117	125	...	...	522	457	979	
Jews	3	4	6	1	3	5	2	1	5	1	2	2	5	2	16	12	...	...	96	89	185	
Native Christians	53	47	35	26	34	25	32	22	27	15	23	8	38	20	50	82	1	...	663	579	1,242	
Eurasians	4	4	2	3	5	2	5	3	5	...	2	4	1	5	6	6	...	...	68	54	122	
Europeans	54	4	47	6	36	5	22	4	20	2	10	5	8	1	13	10	2	...	348	60	403	
Negro-Africans	2	...	...	...	...	...	...	1	1	...	1	...	2	...	1	2	...	...	10	7	17	
Buddhists	1	...	1	1	1	...	...	...	1	...	3	...	2	...	1	...	1	...	20	1	21	
Other and Unknown Castes	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	8	12	20	
Males	1,551	...	1,148	...	1,029	...	607	...	776	...	428	...	732	...	1,185	...	8	...	17,647	...	...	
Females	...	882	...	511	...	449	...	277	...	350	...	166	...	473	...	1,208	...	1	...	12,927	...	...
All Castes. (Persons	2,433	...	1,659	...	1,478	...	884	...	1,126	...	604	...	1,205	...	2,393	...	9	...	...	30,574	...	...

TABLE showing by Race the Rate of Mortality per 1,000 of Population from different Death Causes in 1916.

Race or Caste.	Small-pox.	Measles.	Plague.	All Fevers.	Scarlet.	Enteric.	Malaria.	Ague and Remittent.	Relapsing.	Cholera.	Dysentery.	Phthisis.	Other Respiratory Diseases.	Accidents.	All Other Causes.	All Causes.
Jains ..	..	1.22	8.01	3.27	.....	.39	.39	2.44	.04	.29	.87	2.15	21.40	1.07	20.18	63.12
Brahmins ..	..	.39	1.97	2.03	.....	.20	.14	1.67	.....	.07	.50	.74	7.21	.42	7.19	23.49
Lingajits ..	..		12.72	6.78	.....	.....	.....	6.78	.....	.....	3.39	11.02	41.56	5.93	52.58	145.88
Bhatias ..	..	.51	1.54	1.92	.....	.12	.12	1.67	.....	.....	.51	3.05	7.19	.77	11.18	27.24
Hindus of other Castes ..	..	.50	2.06	2.11	.....	.07	.21	1.82	.003	.12	.18	1.40	8.69	.62	8.90	26.65
Hindus, Low Caste ..	..	1.01	3.42	3.18	.....	.03	.09	3.03	...	.22	1.97	2.69	23.84	.94	20.59	65.14
Hindus, All Castes...	..	.39	2.35	2.23	.....	.09	.20	1.93	.004	.13	.78	1.50	10.19	.65	9.08	30.65
Muslimans ..	..	.26	1.37	1.90	.....	.11	.23	1.55	.....	.16	.89	2.94	11.93	.86	13.66	36.91
Parsees ..	..	.11	.84	1.55	.....	.44	.21	.92	.....	.09	.21	.54	3.33	.60	10.44	19.22
Jews ..	..	.60	.75	2.12	.....	.30	.45	1.36	.....	.....	1.36	1.36	6.21	.60	13.38	23.04
Native Christians ..	..	.29	1.69	2.22	.....	.29	.38	1.55	.....	.14	.79	1.76	6.20	.55	12.74	30.09
Eurasians ..	..	.23	.23	2.38	.....	.23	1.43	.71	.....	.....	1.19	2.14	5.73	.....	13.61	29.13
Europeans ..	..	.16	.50	6.13	.....	3.86	1.59	.67	.....	.92	3.36	.50	2.52	7.31	11.35	33.88
Buddhists ..	..			1.73	.....	1.73	.....	.....	.....	.....	5.19	.....	6.92	1.73	15.57	36.33
Other and Unknown Castes ..	..										...		51.47	66.47	29.41	147.05
Total ..	1.04	.35	2.02	2.18	.....	.17	.34	1.76	.003	.14	.81	1.71	9.25	.77	10.64	31.21

TABLE of BIRTHS in different months by Caste and Sex in 1916.

MONTHS.	Jains.		Brahmins.		Lingaites.		Bhatias.		Hindus of other Castes.		Hindus, Low Caste.		Musalmans.		Parsees.		Jews.		Native Christians.		Eurasians.		Europeans.		Negro-Africans.		Buddhists.		Other and unknown Castes.		TOTAL.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.	
January ...	8	10	25	25	1	1	3	8	436	483	184	188	160	197	67	77	7	10	56	44	9	3	7	12	...	...	...	...	...	...	913	1,008	1,921	
February ...	19	12	29	16	...	1	7	4	356	370	112	106	152	141	62	62	4	8	44	46	5	8	1	9	1	...	...	...	...	...	...	786	785	1,571
March ...	14	10	25	28	1	1	5	3	373	346	91	113	147	130	38	38	5	9	46	43	6	7	7	8	...	...	...	...	...	...	760	736	1,496	
April ...	13	12	24	19	...	2	8	5	344	334	102	121	133	120	46	35	10	8	40	39	3	3	2	2	...	...	...	...	...	...	725	671	1,396	
May ...	20	13	26	19	2	2	7	5	369	328	110	93	162	146	47	47	4	9	43	42	5	3	10	7	...	...	...	...	...	...	869	715	1,584	
June ...	11	17	25	14	3	3	6	3	345	332	95	100	149	140	43	58	6	7	49	43	4	3	9	10	...	...	...	...	...	...	747	731	1,478	
July ...	9	14	17	16	2	5	6	4	395	365	129	122	189	162	65	66	11	7	44	42	11	7	13	8	...	...	...	...	...	...	891	819	1,710	
August ...	11	11	23	24	4	5	5	5	410	395	138	124	188	175	50	59	16	8	48	50	11	2	6	7	...	...	...	...	...	...	895	868	1,763	
September...	15	14	24	24	2	5	6	3	456	463	140	126	191	158	60	61	10	7	42	49	6	7	15	7	...	...	...	...	...	...	997	924	1,921	
October ...	9	13	35	29	4	2	7	12	557	511	163	150	182	198	84	72	8	11	58	53	7	6	7	7	...	...	...	...	...	...	1,128	1,067	2,195	
November ...	20	17	29	43	3	3	7	5	510	523	153	154	196	171	85	84	11	13	44	61	8	12	9	9	...	...	...	...	...	...	1,078	1,106	2,178	
December ...	20	11	38	27	4	...	5	1	438	482	148	149	207	193	77	55	16	7	61	53	7	4	9	3	...	...	...	...	...	...	1,080	986	2,066	
Total ...	Males ...	169	...	307	...	26	...	72	...	5,039	...	1,514	...	2,051	...	724	...	108	...	575	...	82	...	95	...	1	...	5	...	2	...	10,770	...	Persons.
	Females ...	154	...	289	...	30	...	58	...	4,922	...	1,493	...	1,931	...	704	...	105	...	535	...	65	...	89	...	...	...	3	...	...	...	10,410		

TABLE showing the number of Still-births by Section and Month in 1916.

MONTHS	A				B			C					D					E						F		Total.									
	Upper Colaba.	Middle and Lower Colaba.	Port, South.	Port, North.	Baplanade.	Mandvi.	Chukla.	Umakbadi.	Dongri.	Market.	Dhol Talao.	Pansawadi.	Bhuleswar.	Kharu Talao.	Kumbharwada.	Khetwadi.	Girgaum.	Chowpati.	Wakreshwar.	Mahalakeshmi.	Mazagon.	Tarwadi.	2nd Nagpada.	Kamathipura.	Tardeo.		Byculia.	1st Nagpada.	Parel.	Sewri.	Ston.	Mabim.	Worli.		
January ..	2	..	..	4	3	3	1	13	3	1	3	1	4	3	3	4	4	1	2	1	1	1	3	4	7	7	6	3	8	2	..	5	7	..	114
February ..	..	2	..	4	4	3	5	8	..	1	1	3	2	3	4	4	4	4	..	1	3	6	..	5	2	2	10	1	2	4	4	5	10	..	107
March ..	..	6	..	4	3	..	4	10	2	2	3	4	5	3	3	..	5	1	2	4	3	2	4	6	4	4	13	1	1	2	6	4	0	..	124
April ..	..	3	..	5	2	1	6	7	3	1	4	3	2	1	1	3	5	..	3	1	2	6	4	6	2	13	..	..	3	3	6	2	14	..	111
May ..	..	..	..	1	3	3	3	10	3	3	5	1	8	3	2	2	3	2	2	..	3	9	4	5	5	2	13	..	5	1	1	5	7	..	112
June ..	..	3	..	1	..	1	3	10	1	2	6	..	7	4	6	5	5	2	..	1	5	3	3	4	9	4	13	2	7	5	6	4	16	..	135
July ..	1	1	..	3	3	6	5	11	4	5	5	5	3	3	5	3	3	2	..	1	..	4	4	4	1	4	11	..	10	6	6	3	21	..	140
August ..	..	2	..	5	3	2	2	13	7	3	7	4	3	4	5	7	5	6	3	2	2	6	5	7	7	9	2	2	6	2	..	4	23	..	162
September ..	1	2	..	3	3	6	5	11	7	2	10	1	3	8	11	4	6	1	1	3	5	10	5	12	3	16	..	13	1	1	2	21	..	177	
October ..	1	2	..	5	2	7	3	10	..	4	11	5	3	5	2	8	5	3	..	2	6	8	9	6	5	15	..	12	3	1	10	13	..	166	
November ..	..	1	..	7	1	8	2	7	1	4	10	2	10	4	1	9	7	..	1	3	6	13	3	9	6	12	4	4	9	2	6	9	10	..	175
December ..	..	3	..	6	1	9	7	10	3	3	4	3	3	5	7	3	7	4	1	8	7	3	7	11	5	10	..	4	1	5	8	14	1	163	
Total ..	5	24	..	43	28	49	48	120	36	31	75	82	53	48	61	53	51	19	15	35	54	62	60	81	55	141	13	80	32	46	61	165	1	1,637	

HOSPITALS;

[illegible]

TABLE showing the Number of Plague Deaths by Streets and Races during 1916.

LOCALITY.			Census Population by of 1911.	RACES.																	
Ward.	Section.	STREET.		Jains.	Brahmins.	Lingajits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Chris- tians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.		
A	Upper Colaba.	Upper Colaba.																			
		Celaba Road	1,567	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2		
		Pilot Bunder		..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1		
A	Middle and Lower Colaba.	Middle and Lower Colaba.																			
		Apollo Pier Road	19,579	..	..	..	..	1	1	..	..	..	1	..	1	..	..	..	4		
		Arthur Bunder Road		..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1		
		Bora Street		..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	3	
		Bora Cross Lane		..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	
		Colaba Causeway		..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	1	
		Colaba Road		2	..	..	..	6	..	..	1	1	..	..	..	..	..	..	..	10	
		Gun Carriage Street		..	..	..	..	4	1	..	..	..	..	..	..	..	..	..	..	6	
		Gun Carriage Yard		..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	
		Hamal Street		..	..	..	..	9	..	..	..	..	..	..	..	..	..	..	..	9	
		Jamsetji Bunder		..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	
		Koli 1st Lane		..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	
		Koli 2nd Lane		..	..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	3	
		Koli 5th Lane		..	..	..	..	3	3	..	..	..	..	..	..	..	..	..	..	6	
		Manekji Street		1	..	..	..	3	..	2	..	..	..	..	..	..	1	..	..	1	
		Merewether Road		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	
		Nowroji Street		..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	1	
		Pestonji Street... ..		..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	1	
		Shroff Street		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
		Thomas Road		..	..	..	..	14	..	1	..	..	..	..	..	..	..	..	..	15	
Victoria Bunder	..	..		..	..	12	1	1	..	..	..	..	1	..	..	..	..	14			
Wode House Road	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1				
Yatch Club Chambers	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1				
A	Fort, South.	Fort, South.																			
		Apollo Street	3,462	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1		
		Apollo Pier Road		..	..	..	..	1	..	..	..	..	..	..	..	..	..	1			
		Bell Lane		..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2		
		Church Gate Street		..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1		
		Esplanade Road		..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1		
		Fort, North.		Fort, North.																	
				Bomanji Lane	23,400	..	..	..	..	1	..	..	3	..	..	..	..	..	..	..	4
				Bazar Gate Street		..	..	..	..	5	..	1	..	..	..	..	..	..	..	..	5
				Bora Bazar Street		2	3	..	2	4	..	..	..	..	1	..	..	..	..	..	11
Cawasji Patel Street	..			..		..	..	..	..	..	4	..	1	..	..	..	..	..	5		
Devarkadass Street	1		..	..		..	..	..	..	..	..	..	..	..	..	..	..	1			
Elphinstone Circle	..		..	..		..	1	..	..	..	..	..	..	..	..	..	..	1			
Frere Road	..		..	..		..	1	..	..	2	..	..	..	..	..	..	..	3			
Fort Street	..		..	..		..	1	..	..	..	..	..	..	..	..	..	..	1			
Goa Street	..		..	..		..	2	..	..	..	..	..	..	..	..	..	..	2			
Gola Lane	..	..	..	..		..	..	..	1	..	..	..	..	..	..	..	1				
A	Fort, North.	Jeejibhai D. Lane	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1			
		Karwar Street	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	2			
		King Lane	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	2			
		Kumpta Street... ..	..	..	..	..	9	..	1	..	..	..	..	..	..	..	..	1			
		Maruty Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9			
		Manordass Street	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2			
		Mangesh Senoi Street	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	3			
		Mint Road	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2			
		Mint Cross Lane	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1			
		Mody Street	..	..	..	..	2	..	1	2	..	..	..	..	..	..	..	5			
A	Espla- nade.	Parsee Bazar Street	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1			
		Parsee Panchayat Lane	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1			
A	Espla- nade.	Esplanade.																			
		Carnac Road	17,761	..	..	..	..	3	1	3	..	..	..	..	1	..	..	..	7		
Frere Road	..	..		..	..	1	1	..	..	..	..	..	..	..	..	..	2				
Hornby Road	..	..		..	..	2	1	2	..	..	..	2	..	..	..	..	8				
Paltan Road	..	..		..	..	..	5	..	..	..	..	..	..	..	..	..	5				

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[illegible]

TABLE showing the Number of Plague Deaths by Streets and Races during 1916—*continued.*

LOCALITY.			Population by Census of 1911.	RACES.															
Ward.	Section.	STREET.		Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Chris- tians.	Kurashians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
C	Dhobi Talao.	Dhobi Talao.																	
		Bhangwady	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Cavel Street	...	2	1	...	1	4	2	...	...	...	4	...	...	...	...	...	14
		Chandanwadi Street	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	2
		Dadyset Agiary Lane	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	2
		Dhobi Talao 1st Lane	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
		Dhobi Talao Lane	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Girgaum Road	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2
		Hamalwady	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Kalbadewi Road	...	...	4	...	...	5	...	...	...	...	...	...	...	...	...	...	9
		Kolbhat Street	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kolbhat 1st Lane	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kolbhatwady	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Marine 1st Lane	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2
		Marine 1st Cross Lane	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Tara Naikinis Wady	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1		
Trinity Street	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1		
C	Fanaswadi.	Fanaswadi.																	
		Anantwady	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3
		Bhasker Lane	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	4
		Bhuleshwar Road	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Bhaijiwanji's Lane	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Cathedral Street	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	1
		Dukerwady	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
		2nd Fanaswadi Lane	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Fanaswadi Street	...	2	2	...	10	...	...	...	...	...	...	...	...	...	...	...	14
		Girgaum Road	...	...	...	...	5	...	1	...	...	...	...	...	...	...	...	...	6
		Hargovind Desai's Wady	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
New Wady	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2		
Sonapur Street	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2		
Thakurdwar Road	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2		
Zaoba's Wady	...	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	5		
C	Bhuleshwar.	Bhuleshwar.																	
		Banjan Road	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	3
		1st Bhoiwada Lane	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	5
		2nd do. do.	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	4
		3rd do. do.	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	4
		3rd do. Cross Lane	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	4
		Bhuleshwar Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Bapu Khote Street	...	1	...	...	5	...	1	...	...	...	...	...	...	...	...	...	7
		B. R. Parel Road	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	2
		Cathedral Street	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	3
		Girgaum Back Road	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Ghogari Street	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		1st Ghogari Cross Lane	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Kika Street	...	3	2	...	5	...	...	...	...	...	...	...	...	...	...	...	10
		Kalbadewi Road	...	1	2	...	...	1	...	...	...	...	...	...	...	...	...	...	3
		Kazi Street	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	3
		Masjid Cross Lane	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Maruty Lane	...	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	4
		Malharrao Wady	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Masjid Street	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	5
		Nizam Street	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	4
		Panchyot Wady	...	...	1	...	3	...	...	...	...	...	...	...	...	...	...	...	4
		Pantrapole Street	...	...	2	...	1	1	...	...	...	...	...	...	...	...	...	...	4
1st do. do.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1		
2nd do. do.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1		
3rd do. do.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1		
1st Pophal Wadi	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1		
2nd do. do.	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1		
3rd do. do.	...	...	2	...	...	4	...	...	...	...	...	...	...	...	...	...	6		

TABLE showing the Number of Plague Deaths by Streets and Races during 1916—continued.

[illegible]

TABLE showing the Number of Plague Deaths by Streets and Races during 1916—continued.

LOCALITY:			Population by Census of 1911.	RACES.													Total.			
Ward.	Section.	STREET.		Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.		Buddhists.	Unknown.	
D	Girgaum.	Girgaum.																		
		Akalkote Lane...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	2
		Borbhat Lane ...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Girgaum Road ...	...	...	...	3	...	...	1	...	...	...	...	1	...	...	...	...	...	3
		Girgaum Back Road	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	4
		Kandewadi ...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	5
		Kelewadi ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Khatualli ...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Mangalwadi ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Mugbhat Lane ...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Mugbhat Cross Lane	...	...	...	3	1	...	2	...	...	...	...	...	...	...	...	...	...	11
		Ovalwadi ...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Pimpalwadi ...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Sadashiv Lane ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	3
Kakadwadi ...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	2		
Thakurdwar Road	...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	4		
D	Chow- pati.	Chowpati.																		
		Chawpati Road...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2
		Damar Lane ...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Girgaum Road ...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	2
		Girgaum Back Road	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Lamington Road	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	
D	Walkeshwar.	Walkeshwar.																		
		Banganga Temple ...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	3
		Babulnath Road ...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	3
		Chanpati Road...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2
		Dadyshet Road...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Gawalia Tank Road	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	3
		Nepean Sea Road	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Narayan Dabholkar Road	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Walkeshwar Road	...	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	5
		Ridge Road	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2
D	Mahalakshmi.	Mahalakshmi.																		
		Arthur Road	...	...	...	...	12	7	5	...	1	...	1	...	...	...	...	...	...	25
		Bellasis Road	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	3
		Chikhalwadi	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2
		Clerk Road	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	3
		Falkland Road...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
		Forjett Street	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
		Gowalia Tank Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
		Redcar Road	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2
		Sleater Road	...	...	...	...	3	...	1	1	...	...	...	...	...	...	...	...	...	5
		Tardeo Road	...	...	...	1	...	21	...	...	...	...	...	...	...	...	...	...	...	22

TABLE showing the Number of Plague Deaths by Streets and Races during 1916—continued.

[illegible]

TABLE showing the Number of Plague Deaths by Streets and Races during 1916—continued.

LOCALITY.			Population by Census of 1911.	RACES.														Total.	
Ward.	Section.	STREET.		Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Rurasians.	Europeans.	Negro-Africans.	Buddhists.		Unknown.
E	Tardeo.	Tardeo.																	
		Arab Lane	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Bapti Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3
		Bellasis Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3
		Falkland Road... ..	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	6
		Foras Road	...	...	...	...	5	1	...	...	...	...	...	...	...	...	...	...	6
		Jairajbhai Street	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Lamington Road	...	...	...	...	6	1	...	...	...	...	...	...	...	...	...	...	8
		Road-side	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Suklaji Street	...	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	4
E	Byculla.	Byculla.																	
		Agripada Road... ..	...	...	...	...	2	1	2	...	...	...	...	...	...	...	...	...	5
		Arthur Road	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	4
		Bellasis Road	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	3
		Chambar Lane	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	3
		Clare Road	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	2
		Clerk Road	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	7
		Club Road	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		DeLisle Road	...	3	1	...	19	3	2	...	...	...	...	...	...	...	...	...	27
		" Cross Lane	...	...	...	...	5	2	...	...	...	...	...	...	...	...	...	...	7
		Gell Street	...	...	...	...	...	1	4	...	...	...	...	...	...	...	...	...	5
		Ghelabhai Street	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2
		Gujri Bazar Lane	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	2
		Haines Road	...	1	...	...	15	1	2	...	...	...	...	...	...	...	...	...	19
		Kalachowki Road	...	...	...	...	6	...	1	...	...	...	...	...	...	...	...	...	7
		Kalapani Cross Lane	...	...	...	...	1	1	2	...	...	...	...	...	...	...	...	...	4
		Lamington Road	...	...	...	...	5	3	...	...	...	...	...	...	...	...	...	...	8
		Mahomedan Street	...	...	...	...	...	1	3	...	...	...	...	...	...	...	...	...	4
		Moreland Road... ..	...	1	1	...	14	7	1	...	...	1	...	...	...	...	...	...	25
		Parel Road	...	...	...	...	13	1	...	...	...	...	1	...	...	...	...	...	16
Ripon Road	...	3	...	...	4	1	6	...	...	1	...	...	...	...	...	...	15		
" Cross Lane	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2		
Sankli Street	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3		
Sunder Lane	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2		
E	1st Nagpada.	1st Nagpada.																	
		Bellasis Road	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	2
		Parel Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		2nd Peerkhan Lane	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		3rd "	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		4th " Street... ..	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
12	Parel.	Parel.																	
		Arthur Road	...	1	1	...	...	8	1	3	...	1	...	...	...	...	...	...	14
		Bhoiwady Road	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Curry Road	...	...	...	...	19	...	2	...	...	...	...	...	...	...	...	...	22
		Elphinstone Road	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...	...	4
		Government Gate Road	...	...	1	...	...	6	1	1	...	...	...	...	...	...	...	...	9
		Government House Compound.	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2
		Governor's Road	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Kalachowki Road	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	13
		Lalwady... ..	...	...	...	...	5	3	...	...	...	...	...	...	...	...	...	...	5
		Parel Road	...	...	...	...	9	...	1	...	...	...	...	...	...	...	...	...	10
		Parel Back Road	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Parel Tank Road	...	...	1	...	...	7	1	1	...	...	...	...	...	...	...	...	10
		Parel Village	...	1	1	...	...	11	1	...	...	...	...	...	...	...	...	...	14
Sunaribang Road	...	1	2	...	...	10	1	3	...	...	1	...	...	...	...	...	18		
Tulshirampada	...	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	6		

35—concluded.

TABLE showing the Number of Plague Deaths by Streets and Races during 1916—concluded.

		LOCALITY.	Population by Census of 1911.	RACES.														Total.	
Ward.	Section.	STREET.		Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.		Unknown.
F	Sewri.	Sewri.																	
		Bhoiwady Road	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Bhoiwady Village	...	...	...	...	...	4	...	...	...	...	...	2	...	...	...	...	6
		Golangi Hill Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3
		Parel Tank Road	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1
		Sewri Road	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	3
		Sewri Agrivada... ..	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Sewri Cemetery Road... ..	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Sewri Cross Road	...	1	...	...	...	5	...	...	...	...	...	...	...	...	...	...	7
		Sewri Jackeria Bunder	...	1	...	...	...	5	...	1	...	...	...	...	...	...	...	...	7
		Sewri New Road	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
H	Sion.	Sion.																	
		Bhoiwady Road	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	6
		Bhoiwady Cross Road... ..	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	4
		Bhoiwady Village	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Dadar Station	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Dadar Road	...	...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	4
		Dhakti Sewri	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Elphinstone Road	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	3
		Govari Village	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	2
		Harbour Branch Railway	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Matunga Road	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	2
		Matunga Station	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Naigaon Road	...	1	2	...	9	...	...	3	...	...	1	...	...	...	...	...	16
		Naigaon Cross Road	...	...	...	...	3	...	...	...	...	...	1	...	...	...	...	...	4
		Naigaon Village	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2
		Sewri Cross Road	...	...	...	...	2	...	...	8	...	...	3	...	...	...	...	...	13
		Sion Agrivada... ..	...	...	...	...	4	...	...	...	...	...	3	...	...	...	...	...	6
		Sion Koliwada	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		Sion Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Vincent Road... ..	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Vadala Agar	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Vadala Road	...	1	...	...	6	...	...	...	...	...	1	...	...	...	...	...	8
		Vadala Village	...	...	...	...	8	...	...	...	...	...	6	...	...	...	...	...	14
G	Mahim.	Mahim.																	
		Bazar Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Causeway	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Custom Road	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Dadar Portuguese Church Rd.	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Dharavi Road	...	...	...	...	4	4	3	...	...	...	1	...	...	...	...	...	12
		Lady Jamshedjee Road	...	...	...	...	5	...	...	...	...	...	1	...	...	...	...	...	6
		Old Parbhadevi Road	...	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	16
G	Worli.	Worli.																	
		Sorab Galli	...	...	...	...	5	...	...	...	...	...	1	...	...	...	...	...	6
		Bazar Road	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Causeway	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Custom Road	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Dadar Portuguese Church Rd.	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Dharavi Road	...	...	...	...	4	4	3	...	...	...	1	...	...	...	...	...	12
		Lady Jamshedjee Road	...	...	...	...	5	...	...	...	...	...	1	...	...	...	...	...	6
		Old Parbhadevi Road	...	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	16
		Sorab Galli	...	...	...	...	5	...	...	...	...	...	1	...	...	...	...	...	6
		Arthur Road	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	4
		Carroll Road	...	...	...	...	1	8	...	...	...	...	...	...	...	...	...	...	9
		Curry Road	...	...	...	...	7	1	1	...	...	...	...	...	...	...	...	...	9
		Dadar Kumbharwada... ..	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	4
		Dadar Road	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
DeLisle Road	...	3	...	...	38	9	6	...	...	...	...	...	...	...	...	...	56		
Dhobiwada Road	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	2		
Dhun Mill, Kumbharwada	...	1	...	...	23	6	...	...	...	...	...	...	...	...	...	...	30		
Elphinstone Road	...	1	...	...	10	18	3	...	...	...	...	...	1	...	...	...	33		
Fergusson Road	...	3	...	...	50	3	2	1	1	...	...	...	...	...	...	...	60		
Haines Road	...	...	...	...	6	...	...	...	...	2	...	...	...	...	...	...	8		
Khed Galli	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	6		
Koliwada	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1		
Love Grove Road	...	...	...	...	17	...	...	...	...	...	...	...	...	...	...	...	17		
Middle Pakhadi	...	1	...	...	4	...	...	...	...	...	...	...	...	...	...	...	5		
New Parbhadevi Road	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	7		
A	Harbour.	Harbour, Docks, Railways and Homeless.																	
		Harbour... ..	44,979	...	...	...	2	1	2	...	...	1	...	...	...	...	...	...	6

TABLE of Deaths in different Circles from Principal Causes in 1916.

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM								Rate of Mortality per 1,000 of population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.		
Upper Colaba	1	1,557	1	3	4	14	6	18	134	86.06	
Middle and Lower Colaba...	1	2,524	...	3	...	3	3	14	42	16.64	
	2	2,768	3	13	...	2	4	32	80	28.90	
	3	3,504	2	23	...	3	...	26	94	26.82	
	4	1,607	1	6	...	1	1	18	55	34.22	
	5	2,440	2	14	...	2	2	14	54	22.13	
	6	2,163	...	11	3	2	2	17	46	21.26	
	7	1,165	1	7	...	4	3	4	36	30.90	
	8	3,506	...	7	7	2	3	6	43	12.26	
	R. S.	.....	...	...	...	1	2	1	12	.....	
Total ...	...	19,679	9	86	10	20	20	132	462	23.47	
Fort South	1	526	...	3	...	1	...	3	13	22.81	
	2	1,120	...	2	...	21	37	50	265	236.60	
	3	526	1	1	...	...	...	1	4	7.60	
	4	562	1	...	...	1	...	...	5	8.89	
	5	726	1	...	...	...	1	1	7	9.64	
	R. S.	.....	...	...	...	...	1	...	4	.....	
Total ...	...	3,463	3	6	...	23	39	55	297	85.78	
Fort North	1	2,679	4	6	...	13	7	21	129	48.15	
	2	1,787	...	...	...	...	...	3	8	4.47	
	3	2,664	12	17	1	6	13	16	116	43.54	
	4	3,176	3	13	...	6	9	20	85	26.76	
	5	2,266	2	7	...	6	1	13	51	22.50	
	6	4,101	4	7	5	6	12	27	121	29.50	
	7	4,868	6	6	1	5	14	43	143	32.79	
	8	4,354	7	9	...	11	16	53	171	39.27	
	R. S.	.....	...	...	...	1	4	2	12	.....	
Total ...	...	25,400	38	65	7	54	76	198	836	32.91	
Esplanade	1	2,170	1	1	7	24	28	53	206	94.99	
	2	1,093	...	...	...	1	1	2	10	9.14	
	3	5,298	2	9	2	31	19	61	240	45.30	
	4	8,985	1	3	1	15	9	14	127	14.13	
	R. S.	.....	2	9	...	15	14	22	108	.....	
Total ...	...	17,761	6	22	10	86	71	153	691	38.90	
Mandvi	1	3,517	4	11	...	4	6	54	119	33.83	
	2	Demolished.	1	2	...	2	4	4	23	.....	
	3	1,268	1	2	...	1	3	17	45	35.48	
	4	2,845	3	16	1	7	10	52	123	42.88	
	5	1,154	...	9	...	2	4	19	52	45.06	
	6	5,290	...	7	...	...	1	24	50	9.45	
	7	1,694	1	10	1	7	3	15	59	34.82	
	8	1,155	...	5	...	2	1	12	29	25.10	
	9	3,365	4	3	...	2	3	28	78	23.17	
	10	3,498	2	15	...	11	8	49	124	35.44	
	11	5,197	4	19	...	11	13	96	216	41.56	
	12	1,485	...	4	...	1	1	27	44	29.62	
	R. S.	.....	1	5	...	4	10	13	60	.....	
Total ...	...	33,202	21	108	2	54	67	415	1,021	30.75	
Shukla	1	2,688	...	...	1	2	11	46	96	35.71	
	2	2,848	...	12	1	4	6	43	92	32.30	
	3	2,569	2	6	...	5	2	26	72	28.02	
	4	4,894	3	3	...	2	16	70	171	34.94	
	5	2,619	...	3	...	...	5	46	84	32.07	
	6	1,268	...	...	...	4	10	33	89	17.18	
	7	2,393	...	4	1	1	2	10	31	12.95	
	8	2,212	1	8	...	3	5	21	68	30.74	
	9	2,740	...	6	...	4	13	26	94	34.30	
	R. S.	.....	...	2	...	6	11	7	43	.....	
Total ...	...	24,231	6	44	3	31	81	328	840	34.66	

R. S.=Road-side.

36—continued.

TABLE of Deaths in different Circles from Principal Causes in 1916—continued.

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM								Rate of Mortality per 1,000 of population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.		
Umerkhadi	1	5,654	...	7	...	8	6	54	161	28.47	
	2	2,315	1	5	1	3	1	14	45	20.31	
	3	4,353	1	3	1	9	15	42	155	35.56	
	4	4,319	1	3	2	13	8	31	117	27.08	
	5	2,701	...	8	...	17	7	36	144	53.31	
	6	2,107	...	2	...	6	4	24	82	38.91	
	7	4,621	...	12	...	14	8	75	221	47.82	
	8	6,517	...	10	...	7	14	50	203	31.14	
	9	5,144	1	8	1	17	5	46	186	36.15	
	10	6,043	2	20	...	35	5	102	324	40.28	
	R. S.	.....	1	5	...	...	19	21	80	.....	
Total ...	...	45,679	7	83	5	129	92	493	1,718	37.61	
Dongri	1	6,243	...	6	...	7	1	39	94	15.05	
	2	12,131	1	16	...	13	5	84	209	17.22	
	3	5,539	1	9	...	7	2	77	173	31.23	
	4	2,375	2	1	1	7	1	31	85	35.78	
	R. S.	.....	1	...	...	1	6	11	28	.....	
Total ...	...	27,246	5	32	1	35	15	242	589	21.61	
Market	1	3,967	8	10	...	14	4	33	104	26.81	
	2	1,808	2	4	...	7	4	18	66	36.50	
	3	1,597	1	2	...	1	3	21	47	29.48	
	4	2,395	3	2	1	8	3	29	75	31.31	
	5	6,633	5	14	2	17	10	54	172	25.93	
	6	4,489	1	12	1	3	4	45	114	24.84	
	7	3,611	1	3	...	1	2	24	42	11.63	
	8	5,349	2	11	...	7	1	33	94	17.57	
	R. S.	...	...	3	...	4	3	11	39	.....	
Total ...	...	30,172	23	61	4	62	34	268	753	24.95	
Lhobi Talao	1	6,939	10	4	4	10	9	65	186	36.80	
	2	4,499	3	3	...	6	4	47	121	26.89	
	3	4,932	7	1	2	7	7	66	152	30.81	
	4	6,141	7	4	...	12	7	54	149	24.26	
	5	3,705	2	5	...	8	3	27	82	21.13	
	6	5,733	11	8	...	4	5	49	151	26.33	
	7	6,735	6	13	4	9	4	54	178	26.42	
	R. S.	...	2	3	...	4	13	8	61	.....	
Total ...	...	8,684	48	41	10	60	52	370	1,080	27.91	
Fanaswadi	1	9,324	7	9	1	11	9	62	223	23.91	
	2	10,334	2	20	4	21	14	98	308	29.80	
	3	7,745	5	17	3	14	10	63	215	27.76	
	R. S.	...	...	1	...	3	1	...	8	.....	
Total ...	...	27,403	14	47	8	49	34	238	754	27.51	
Bhuleshwar	1	5,349	1	21	...	9	3	44	136	24.50	
	2	5,466	2	14	1	9	2	47	132	24.14	
	3	3,171	1	9	...	3	4	30	88	27.75	
	4	10,422	5	21	2	9	10	135	349	33.48	
	5	7,224	1	7	2	5	9	102	252	34.88	
	6	4,625	1	18	...	4	2	51	186	29.40	
	R. S.	...	1	2	1	6	7	17	53	.....	
Total ...	...	36,459	12	92	6	45	37	426	1,146	31.43	
Khara Talao	1	3,958	2	7	1	4	7	44	128	32.33	
	2	2,388	...	1	...	3	8	29	88	36.85	
	3	6,297	6	11	5	2	11	83	213	35.82	
	4	4,548	...	4	...	...	17	56	159	34.96	
	5	5,745	...	6	2	6	12	48	175	30.46	
	R. S.	...	1	2	...	2	6	8	32	.....	
Total ...	...	22,979	9	31	8	17	61	271	795	34.59	

R. S.—Road side.

36—continued.

TABLE of Deaths in different Circles from Principal Causes in 1916—continued.

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM								Rate of Mortality per 1,000 of Population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthi- sis.	Respiratory Diseases.	All Causes.		
Kumbharwada	1	7,264	7	14	2	11	13	91	242	33.31	
	2	10,374	6	24	1	12	17	133	331	32.81	
	3	4,914	...	4	2	3	6	66	156	31.74	
	4	5,163	7	6	...	...	6	64	146	28.57	
	R. S.	...	...	1	...	1	2	4	31	.....	
	Total ...	...	27,703	20	49	5	27	44	328	906	32.70
Khetwadi	1	2,737	4	5	1	8	7	19	63	24.84	
	2	5,463	2	8	...	5	13	41	119	21.76	
	3	4,318	6	7	1	16	10	27	103	23.85	
	4	2,634	4	3	...	7	6	23	102	38.72	
	5	3,574	9	9	...	13	10	35	139	38.89	
	6	2,367	...	7	...	4	2	14	68	28.72	
	7	4,567	9	7	...	7	9	36	109	23.86	
	8	6,269	9	6	...	6	25	65	185	29.51	
	R.S.	...	1	...	...	2	4	4	23	.....	
	Total ...	...	31,937	44	52	2	63	86	263	916	28.68
Girgaum	1	6,126	6	5	...	17	16	37	160	36.11	
	2	3,769	4	7	1	9	10	22	104	27.59	
	3	5,923	2	15	...	13	9	47	169	28.50	
	4	1,123	...	3	1	5	3	11	36	32.05	
	5	4,822	6	6	1	17	12	53	155	32.14	
	6	6,080	12	5	...	16	14	71	223	36.67	
	7	2,862	1	5	...	4	1	19	53	18.51	
	R. S.	...	...	...	...	2	8	3	23	.....	
	Total ...	...	30,779	31	46	3	83	73	263	923	29.98
Chowpati	1	1,272	1	2	...	1	1	5	32	25.15	
	2	1,758	1	2	...	2	3	6	26	14.78	
	3	1,847	...	2	3	1	10	19	64	34.65	
	4	1,618	...	2	1	3	1	8	40	24.72	
	5	3,930	3	1	...	6	6	18	74	18.82	
	6	944	1	...	1	3	...	7	23	24.36	
	R. S.	...	...	1	...	1	...	4	13	.....	
	Total ...	...	11,397	6	10	5	17	21	67	272	23.86
Walkeshwar	1	1,591	1	6	...	5	2	8	65	40.85	
	2	2,132	1	9	...	8	3	18	64	30.01	
	3	1,873	...	3	...	...	...	10	29	15.48	
	4	272	...	...	...	3	1	4	11	40.44	
	5	835	1	1	...	2	1	3	11	13.17	
	6	2,694	...	2	...	1	2	22	65	24.12	
	7	1,234	...	2	...	...	1	7	22	17.89	
	R. S.	.....	...	...	...	...	...	3	6	.....	
	Total ...	...	10,640	3	23	...	19	10	75	273	25.65
Mahalakshmi... ..	1	2,595	...	...	...	4	5	15	46	17.72	
	2	744	...	...	...	...	3	4	19	25.53	
	3	1,056	2	1	...	1	...	4	16	15.15	
	4	2,817	1	4	1	1	9	21	71	25.20	
	5	2,365	1	3	...	5	3	23	73	30.86	
	6	3,856	3	5	2	6	9	14	75	19.45	
	7	5,240	4	21	1	6	10	36	131	25.00	
	8	3,228	5	18	...	1	7	30	98	30.35	
	9	4,401	4	13	...	3	21	67	198	44.98	
	R. S.	.....	...	...	...	1	...	...	8	.....	
	Total ...	...	26,302	20	65	4	28	67	214	735	27.94

R. S.—Road side.

36—continued.

TABLE of Deaths in different Circles from Principal Causes in 1916—continued.

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM								Rate of Mortality per 1,000 of Population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.		
Mazagon	1	4,780	3	5	...	52	3	73	242	50.62	
	2	4,057	4	6	...	12	1	27	82	20.21	
	3	4,196	3	6	...	16	2	30	91	21.68	
	4	4,543	1	8	1	12	3	40	115	25.31	
	5	12,488	17	45	...	108	...	158	474	37.95	
	R. S.	.....	...	...	...	...	...	...	...	.....	
Total ...	...	30,075	28	70	1	200	9	328	1,004	33.38	
Tarwadi	1	9,413	5	14	1	64	90	132	631	67.03	
	2	3,476	3	8	1	19	8	31	128	36.82	
	3	15,524	26	39	3	102	2	224	588	37.87	
	R. S.	.....	...	...	...	2	...	7	12	.....	
	Total ...	...	28,424	34	61	4	187	95	394	1,359	46.18
	...	...	...	...	...	...	...	...	...	...	...
2nd Nagpada	1	6,167	7	15	...	5	29	72	198	32.10	
	2	5,788	10	7	...	7	28	72	228	39.39	
	3	5,795	10	3	2	8	23	88	247	42.62	
	4	3,950	7	1	...	5	17	51	145	36.70	
	R. S.	.....	2	...	...	3	6	3	32	.....	
	Total ...	...	21,700	36	26	2	23	103	266	850	39.17
Kamathipura	1	7,859	28	31	1	12	38	95	324	41.22	
	2	15,742	39	85	1	12	69	210	590	37.47	
	3	13,010	25	23	...	13	52	158	455	34.97	
	R. S.	.....	1	1	...	2	15	16	54	.....	
	Total ...	...	36,751	93	90	2	39	174	479	1,423	38.72
	...	...	...	...	...	...	...	...	...	...	...
Tardeo	1	4,306	5	6	...	2	9	22	89	20.66	
	2	7,031	5	6	...	6	11	43	146	20.76	
	3	10,386	29	13	2	4	38	120	345	33.21	
	4	6,000	22	9	...	3	26	92	270	45.00	
	R. S.	.....	...	...	1	2	8	9	39	.....	
	Total ...	...	27,758	61	34	3	17	92	286	889	32.02
Byculla	1	10,722	44	55	4	36	52	363	1,070	99.79	
	2	4,847	11	8	...	4	5	51	149	30.74	
	3	15,281	16	22	1	18	14	160	460	30.10	
	4	22,104	11	35	...	8	14	161	416	18.82	
	5	4,146	5	7	1	2	6	83	172	41.48	
	6	5,835	18	9	...	6	5	62	185	31.70	
	7	6,280	12	16	1	7	5	85	198	31.52	
	8	6,092	12	21	1	4	3	75	189	31.02	
	R. S.	.....	...	...	...	...	2	2	14	.....	
	Total ...	...	75,348	129	173	8	85	108	1,042	2,853	37.86
1st Nagpada	1	3,632	5	2	...	4	6	27	83	22.85	
	2	2,782	5	4	...	4	6	21	88	31.63	
	R. S.	.....	...	...	...	...	1	3	7	.....	
	Total ...	...	6,414	10	6	...	8	13	51	178	27.75
Porol	1	4,010	14	7	1	13	5	48	128	31.93	
	2	5,780	9	18	...	18	5	57	159	27.50	
	3	6,916	10	19	1	35	11	77	235	33.97	
	4	6,533	17	24	...	23	5	68	203	31.07	
	5	830	1	1	...	1	...	3	15	18.07	
	6	6,807	6	15	1	12	7	53	149	21.88	
	7	4,299	10	7	...	12	1	48	133	30.93	
	8	7,323	10	23	...	18	5	95	243	33.18	
	9	2,719	5	17	1	5	7	46	130	47.81	
	R. S.	.....	2	...	...	...	4	5	26	.....	
Total ...	...	45,474	84	131	4	137	50	500	1,421	33.44	

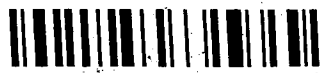
R. S.—Road side.

36—concluded.

TABLE of Deaths in different Circles from Principal Causes in 1916—concluded.

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM							Rate of Mortality per 1,000 of Population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.	
Sawri	1	6,453	6	6	2	20	1	72	164	25.41
	2	3,872	5	7	...	10	3	41	117	30.21
	3	1,869	...	1	...	7	4	11	45	24.07
	4	5,675	6	16	...	15	6	56	161	28.37
	5	1,163	...	1	...	3	...	2	18	15.47
	R. S.	.....	1	...	...	...	1	...	4	.....
	Total ...	19,067	18	30	2	55	15	182	569	26.69
Sion	1	1,140	7	6	...	15	9	39	132	115.78
	2	1,290	3	1	...	3	4	4	48	37.18
	3	5,124	4	26	2	9	8	36	154	30.05
	4	4,426	5	16	...	18	5	31	133	30.04
	5	2,420	1	24	...	9	2	24	110	45.45
	6	2,993	3	8	...	7	3	13	59	19.71
	7	2,631	...	3	1	5	...	13	140	53.21
	8	3,315	2	2	...	9	1	14	60	18.66
	9	1,148	3	...	...	3	2	7	27	23.51
	10	1,312	1	1	...	2	...	4	22	16.76
	11	1,952	...	9	...	6	3	18	69	35.34
	R. S.	...	1	...	...	...	...	2	6	.....
	Total ...	30,660	30	96	3	85	37	205	960	31.29
Mahim	1	2,626	3	14	...	9	2	23	86	32.74
	2	3,715	7	3	...	3	7	32	123	33.31
	3	3,440	2	8	...	8	4	31	110	31.97
	4	2,313	1	5	...	3	7	30	76	33.85
	5	5,068	11	2	...	8	11	69	182	35.91
	6	5,825	15	2	2	7	14	33	147	25.23
	7	1,886	...	4	...	4	2	17	61	32.34
	8	5,381	1	8	...	9	2	67	193	35.86
	R. S.	.....	...	...	...	...	1	4	12	.....
	Total ...	30,492	40	46	2	56	50	306	993	32.56
Worli	1	2,685	2	17	...	7	1	22	90	33.51
	2	10,764	13	14	...	47	20	86	349	32.42
	3	9,190	8	26	1	33	18	70	252	27.41
	4	4,812	6	9	1	16	5	34	134	27.84
	5	13,327	29	30	1	38	39	133	463	36.74
	6	5,866	2	2	...	14	5	26	153	22.67
	7	17,412	27	46	3	63	30	118	547	31.41
	8	25,400	41	103	2	81	39	141	837	32.95
	R. S.	.....	1	3	...	...	7	1	35	.....
	Total ...	89,611	129	252	8	299	164	731	2,540	31.69
Harbour, Docks, Railways & Homeless.	...	44,979	3	6	5	30	6	22	154	3.42
Grand Total ...	...	9,79,445	1,021	1,987	141	2,141	1,902	9,649	30,574	31.21

R. S.—Road side.



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